## EXHIBIT 33

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Page 1
          IN THE UNITED STATES DISTRICT COURT
 1
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            FOR THE DISTRICT OF NEW JERSEY
 3
 4
     IN RE: JOHNSON &
                                ) MDL No.
                                   16-2738 (MAS)(RLS)
     JOHNSON TALCUM POWDER
                                )
                                )
 5
     PRODUCTS MARKETING,
     SALES PRACTICES, AND
 6
     PRODUCTS LIABILITY
     LITIGATION,
 7
 8
 9
10
11
12
13
              Deposition of SHAWN LEVY, M.D., via
     Zoom Videoconference, taken at Blood Hurst &
14
15
     O'Reardon, 501 West Broadway, Suite 1490,
     San Diego, California, commencing at
16
     9:11 a.m., on Wednesday, May 8, 2024,
17
     reported stenographically by Lisa Moskowitz,
18
     California CSR 10816, Nevada CCR 991,
19
20
     Washington CCR 21001437, Certified Realtime
2.1
     Reporter, RPR, CLR, NCRA Realtime Systems
2.2
     Administrator.
23
24
              GOLKOW, a Veritext Division
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2	2 EXAMINATION OF PAGE
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Johnson & Johnson Consumer, Inc.: 4	
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	Post (	D 0
1	Page 6 WEDNESDAY, MAY 8, 2024	Page 8  1 available electronically and many of
2		them hard copy as well.
3	•	3 BY ATTORNEY DAVIDSON:
4		4 Q. When you say the materials that
5	SHAWN LEVY, M.D.,	5 were provided, do you mean provided by 09:13
6		6 Ms. O'Dell or Ms. Parfitt?
7		7 A. Yes, that's correct.
8		8 Q. Did Ms. Parfitt and Ms. O'Dell
9	EXAMINATION	9 provide you with the scientific literature
10	BY ATTORNEY DAVIDSON:	10 that you cite in your report? 09:13
11	Q. Good morning, Dr. Levy. Is it Levy	11 ATTORNEY O'DELL: Object to form.
12	or Levy?	Let me just ask the question to make
13	A. Levy.	13 sure we're clear on the ground rules,
14	Q. Good morning, Dr. Levy.	14 Jessica. This is not a
15	A. Good morning. 09:11	15 ATTORNEY DAVIDSON: No 09:13
16	1	16 ATTORNEY O'DELL: Let me finish.
1	litigation; right?	17 Just, again, just to make sure we're
18		18 clear, this deposition is for purposes
19		of any new materials in Dr. Levy's
1	you today to your deposition? 09:11	20 report since his 2018 report. So 09:13
21		21 just, again, to set the expectation,
22	, ,	22 that's what we're talking about here
23		23 today, not a retread of all literature
	of the report and the materials that were	24 that he's reviewed at any point in the
25	used in the generation of the report, as 09:11	25 litigation. 09:14
,	Page 7	Page 9
	well as the materials that were provided as	1 BY ATTORNEY DAVIDSON:
	part of this process, some of the other expert reports, et cetera.	2 Q. Dr. Levy, did plaintiff's counsel 3 provide you with the scientific literature
4	•	3 provide you with the scientific literature 4 that you reviewed?
	background materials I'm just a little 09:12	5 A. No. 09:14
	confused. First you said background	6 ATTORNEY O'DELL: Object to the
1	materials, and then you said the	7 form.
1	materials	8 BY ATTORNEY DAVIDSON:
9		9 Q. I'm sorry? I didn't hear your
	the report, copies of those materials. 09:12	10 answer. 09:14
11		11 A. I said: No.
1	materials cited in the report?	12 Q. So every scientific article cited
13		13 in your report you found on your own?
14	supporting when I say background and	14 ATTORNEY O'DELL: Object to the
15	supporting literature, is the material cited 09:12	15 form. 09:14
16	in the report as well as the other materials	16 THE WITNESS: For the new
	provided, such as the testing records for	literature that was reviewed as part
1	some of the plaintiffs, some of the other	of this process that is contained in
19	1	19 the peer-reviewed section, meaning
1	produced. 09:12	20 materials that were not, say, private 09:14
21	· · · · · · · · · · · · · · · · · · ·	21 to a plaintiff, for example, testing
22		22 records, et cetera, things that I
1 ~ ~	invoices that were provided in the	wouldn't have access to, I obviously
23	*	,
23 24 25	Dropbox. And those documents that	24 couldn't provide those. 25 ///

Page 10	Page 12
1 BY ATTORNEY DAVIDSON:	1 literature, as I referenced in the
2 Q. Is it your testimony, sitting here	2 report that was discovered as part of
3 today, that every scientific article cited	3 the request made, that was scientific
4 in your materials and data considered list	4 literature that I found. Your
5 that we received, I think it was on 09:15	5 question was, was all of the 09:16
6 Saturday, is something that you identified	6 literature cited in the report
7 and found on your own?	7 literature that I found in all of it,
8 A. To answer that completely, I'd have	8 and my answer is I would need to
9 to review the entire list to make that	9 specifically review that entire list
10 confirmation. 09:15	10 to give you that answer to be 09:16
11 Q. So is it possible that plaintiff's	11 encompassing of all.
12 counsel provided you with some of the	12 BY ATTORNEY DAVIDSON:
13 scientific literature cited in your	13 Q. What is the difference between
14 materials and data considered list?	14 those two things?
15 A. Again, I'd have to ask you for a 09:15	15 A. Because this was an amended report; 09:17
16 specific example.	16 so there's quite a bit of literature that
17 Q. Well, you said a minute ago that	17 was from earlier, from the earlier
18 you had found it all.	18 development of the report and other
19 Are you changing that testimony?	19 materials cited in the report, as I said.
20 ATTORNEY O'DELL: Object to the 09:15	20 Some of it being testing materials and other 09:17
21 form.	21 things that are non-public. So I would
THE WITNESS: I'm not changing.	22 ask
23 BY ATTORNEY DAVIDSON:	23 Q. Is everything that you
24 Q. I'm sorry, sir?	24 ATTORNEY O'DELL: I'm not sure
25 A. No, I'm not changing the testimony. 09:15	25 he's finished. 09:17
Page 11	Page 13
1 You asked if every scientific piece of	1 BY ATTORNEY DAVIDSON:
2 literature cited, and so	2 Q. Is every new scientific article
3 Q. A minute ago you said yes.	3 cited in your materials and data considered
4 ATTORNEY O'DELL: I'm sorry,	4 list something that you found on your own?
5 Jessica. He was not finished with his 09:16	5 A. Again, definition of a scientific 09:17
6 answer.	6 article is?
7 ATTORNEY DAVIDSON: You're	7 Q. Something published in a journal.
8 interrupting me, Leigh.	8 A. Then I would say yes, I believe so.
9 ATTORNEY O'DELL: No. You	9 But without reviewing the entire list or a
10 interrupted me. Let's just try to 09:16	10 specific example of one certainly as we 09:17
11 start better than normal. He was not	11 go through sections to highlight to you
12 finished with his answer. Dr. Levy	12 anything that was not something that I found
13 BY ATTORNEY DAVIDSON:	13 on my own.
14 Q. You testified a minute ago	14 Q. Let's just ask the question
15 (Parties speaking simultaneously. 09:16	15 differently. 09:18
16 Record unattainable.)	16 Did plaintiff's counsel provide you
17 ATTORNEY O'DELL: Let him finish.	17 with any scientific literature as you
18 ATTORNEY DAVIDSON: Please	18 prepared your amended report?
19 don't	19 ATTORNEY O'DELL: Object to the
	20 form. 09:18
20 ATTORNEY O'DELL: Don't stop his 09:16	
20 ATTORNEY O'DELL: Don't stop his 09:16 21 answer. You please finish your	21 THE WITNESS: Not that I recall.
<ul> <li>answer. You please finish your</li> <li>answer, Dr. Levy, and then you can ask</li> </ul>	21 THE WITNESS: Not that I recall. 22 BY ATTORNEY DAVIDSON:
21 answer. You please finish your 22 answer, Dr. Levy, and then you can ask 23 a follow-up question after that.	
<ul> <li>answer. You please finish your</li> <li>answer, Dr. Levy, and then you can ask</li> </ul>	22 BY ATTORNEY DAVIDSON:

1	Page 14 Q. I'm sorry?	1	Page 16 question.
2	A. Yes, I have.	2	ATTORNEY O'DELL: Object to the
3	Q. Which ones?	3	form.
4	A. The two that are most the few	4	ATTORNEY DAVIDSON: Thank you,
1	that are most recent, it would be from 09:18	5	Leigh. 09:20
	Dr. Longo, Dr. Wolf, Dr. Godleski.	6	ATTORNEY O'DELL: You're welcome.
7	Q. Did you understand my question?		BY ATTORNEY DAVIDSON:
8	A. Yes. And I	8	Q. Doctor, I'm not in the room with
9	Q. What was my question I'm sorry,	-	you today; so if you're looking at
	sir. 09:19		something, I can't know that. So I 09:20
11	A. You asked if I had reviewed other		appreciate the courtesy of letting me know.
1	expert witness reports and who, and I had	12	A. No. As I said, I gave you the two
	provided you some of the answers. And I was		that I recall.
	looking to see if I'm missing any.	14	Q. And what do you have in front of
15			you right now? Because it does look like 09:21
	was: Have you reviewed any defense expert		you're looking at something.
1	reports?	17	
18	-	18	Q. You have a computer in front of you
	Dr. Longo is one. Is that not		today?
20	Q. That's a plaintiff. 09:19	20	A. That's where the camera is, yes. 09:21
21	A. Oh, sorry. I'm sorry. Yes, thank	21	
	you for the clarification. I apologize	22	A. I opened up the defense experts
1	for let me I did		folder that I have as part of the materials.
24	ATTORNEY O'DELL: If you need to	24	Q. Okay. I had asked you if you could
25	see your materials considered list, 09:19		remember anything without looking, and you 09:21
	Page 15		Page 17
1	Dr. Levy, we can provide that to you.	1	said yes.
2	THE WITNESS: I think I have that.	2	But actually, you were looking at
3	The answer is still yes. It's a		something?
4	shorter list.	4	A. Yes. I had already had it open.
	BY ATTORNEY DAVIDSON: 09:20	5	Q. Okay. So when you said you could 09:21
6	Q. Without looking at your materials	_	answer without looking, actually you were
	considered list, do you recall reading any		looking at something; correct?
	expert reports by defense experts in the	8	ATTORNEY O'DELL: Object. That
	MDL?	9	misstates his testimony. Object to
10	A. Yes. 09:20	10	the form. 09:21
11	Q. What do you recall?		BY ATTORNEY DAVIDSON:
12	A. A report by Dr. Chodosh and a	12	Q. Correct, sir?
	report by Dr. Boyd.	13	ATTORNEY O'DELL: Object to the
14	Q. Is it your understanding that those	14	form. It misstates his testimony.
1	were in this proceeding? 09:20		BY ATTORNEY DAVIDSON: 09:21
16	ATTORNEY O'DELL: Do you mean the	16	Q. Correct, sir?
17	MDL proceeding? Jessica, when you say	17	A. No. Incorrect.
18	"this proceeding," are you referring	18	Q. Why is it incorrect?
19	to the MDL or New Jersey or what?	19	A. As I already answered, I already
20	ATTORNEY DAVIDSON: I'm asking the 09:20		had it open. 09:21
21	questions today.	21	Q. So you were looking at it; correct?
22	ATTORNEY O'DELL: It's unclear	22	A. I had looked at it.
23	what the question is.	23	Q. My question was: Can you tell me
24	-		
			ž ž Ť
1	ATTORNEY DAVIDSON: If it's	24	what defense expert reports you reviewed without looking at it? And you said: Yes. 09:22

1	Page 18	1	Page 20
1	But, in fact, you were looking at	1	Q. Who did you meet with?
	something; right?	2	
3	ATTORNEY O'DELL: Object to the		the room.
4	form. THE WITNESS: Again, I had 09:22	4	,
5	THE WITNESS: Again, I had 09:22 previously I had already opened it	5 6	1 3
7	prior to your question.	7	A. From approximately 9:30 a.m. until
	BY ATTORNEY DAVIDSON:		4:15 p.m. There were a couple of hours of
9	Q. I understand.		breaks in there where I had some other
10	So your answer was inaccurate; 09:22		meetings. Two hours specifically. 09:23
	correct?	11	Q. And did you meet with them any
12	A. No, it was not.		other times by phone or Zoom to prepare?
13	ATTORNEY O'DELL: Object to the	13	A. We did. We met by Zoom we met
14	form.		by Zoom two or three times for an hour to an
	BY ATTORNEY DAVIDSON: 09:22		hour and a half each, roughly once a week 09:24
16	Q. I would appreciate the courtesy, if		over the last couple of weeks. I have some
	you are looking at a document at this		records on that, if it's helpful, to be
1	deposition, to tell me.		specific.
19	Because, again, my question was:	19	-
1	Can you tell me what defense expert reports 09:22		haven't previously listed on your materials 09:24
	you looked at without looking at anything?	21	· · · · · · · · · · · · · · · · · · ·
1	And you said: Yes.	22	ATTORNEY O'DELL: Object to the
23	But, in fact, you were looking at	23	-
24	something. So please, going forward in this	24	THE WITNESS: No, not that I'm
1	deposition, if you are looking at something 09:22	25	
	Page 19		Page 21
1			
1	on your computer, please make that clear for	1	BY ATTORNEY DAVIDSON:
	on your computer, please make that clear for accuracy in your testimony. Thank you.	1 2	
		2	BY ATTORNEY DAVIDSON:
2	accuracy in your testimony. Thank you.	2	BY ATTORNEY DAVIDSON:  Q. Do you have any notes that are not
2 3 4 5	accuracy in your testimony. Thank you.  ATTORNEY O'DELL: Objection to the narrative and it misstates his testimony.  09:22	2 3 4	BY ATTORNEY DAVIDSON:  Q. Do you have any notes that are not contained in your report?
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Page 22 1 report, which is your CV.	Page 24 1 form. Are you talking about you
2 (Exhibit Number 1 was marked for	2 said his job at HudsonAlpha
3 identification.)	3 BY ATTORNEY DAVIDSON:
4 ATTORNEY O'DELL: Jessica, you'll	4 Q. Your job at Element Biosciences
5 be putting all the exhibits in the 09:25	5 does not focus on talc; correct? 09:27
6 chat?	6 ATTORNEY O'DELL: Object to the
7 ATTORNEY DAVIDSON: Yes, but it	7 form.
8 sounds like Dr. Levy has his computer	8 THE WITNESS: Not specifically
9 in front of him; so I'm guessing he	9 talc, no.
has his CV in front of him. But yes, 09:26	10 BY ATTORNEY DAVIDSON: 09:27
we'll put it in the chat.	11 Q. And your job at Element Biosciences
12 BY ATTORNEY DAVIDSON:	12 does not focus on asbestos; correct?
13 Q. Is your CV a complete and accurate	13 ATTORNEY O'DELL: Object to the
14 accounting of your professional work and	14 form.
15 publications? 09:26	15 THE WITNESS: Not specifically on 09:28
16 A. It is.	16 asbestos.
17 Q. Have you prepared it yourself?	17 BY ATTORNEY DAVIDSON:
18 A. I'm sorry?	18 Q. And the same is true of your job at
19 Q. Did you prepare it yourself?	19 HudsonAlpha?
20 A. Did I prepare it myself? 09:26	20 A. That's correct. 09:28
21 Q. Yes.	Q. Your CV states that you're an
22 A. Yes.	22 adjunct professor; is that correct?
23 Q. Are there any changes or updates	23 A. That is correct.
24 you want to make to it?	Q. Are you aware that your name does
25 A. No. 09:26	25 not appear on any faculty list at any branch 09:28
Page 23	Page 25
1 Q. You started a new job in February	1 of the University of Alabama under the
2 of 2022 at Element Biosciences?	2 department of epidemiology, department of
3 A. That's correct.	3 genetics, or the department of biological
4 Q. When you started your employment	4 sciences?
5 there, did you disclose your work as a tale 09:26	5 A. No, I wasn't aware of that. 09:28
6 expert?	6 Q. Are you surprised to hear that?
7 A. Not at that time, but it has been	7 A. Not entirely. Most of the time,
8 disclosed since. At that time I had not	8 any faculty lists are primary faculty or
9 been in touch with anything after the 2019	9 secondary faculty. Adjunct are often not
10 deposition. 09:27	10 included on those lists. 09:28
11 ATTORNEY O'DELL: Dr. Levy, I'm	11 Q. When's the last time you taught a
going to stop you. Don't disclose any	12 course at the University of Alabama?
communications you've had with	13 A. I'd be happy to tell you
14 counsel, but you're free to	14 specifically. There's but I would need
15 THE WITNESS: It has been 09:27	15 to look at some of my notes in terms of the 09:29
disclosed since, when there was other	16 presentation. There was a DNA sequencing
activity initiated relative to what	17 course as part of the department of
18 we're talking about today.	18 epidemiological that I taught annually. I
19 BY ATTORNEY DAVIDSON:	19 think the last time I taught that I,
Q. Your job at HudsonAlpha does not 09:27	20 again, would need to verify was probably 09:29
21 focus on talc; correct?	21 2020 or 2021. It was prior to relocating to
22 A. That's correct.	22 San Diego. That's an approximate time. Now
Q. It does not focus on asbestos;	23 that I think about it, given the timing of
24 correct?	24 the pandemic, it was probably 2020.
25 ATTORNEY O'DELL: Object to the 09:27	25 Q. When did you move to San Diego? 09:29

7 (Pages 22 - 25)

	P 20		D 20
1	Page 26 2020?	1	Page 28 anything with Dr. Korf, but I have
2	A. No. In June of 2022.	2	•
$\frac{2}{3}$			•
	Q. So since 2020, you haven't actually	3	
4	taught a course at University of Alabama?	4	1 3
5	A. That's correct. 09:29		BY ATTORNEY DAVIDSON: 09:32
6	Q. Have you been paid?	6	<u> </u>
7	A. I have not. My appointment at UAB		of Alabama; correct?
	was never a paid appointment.	8	
9	Q. So what is the what does your		define "for."
	current what are your current duties at 09:30		
	the University of Alabama?		you for that; correct?
12	A. I have no direct specific	12	
	responsibilities. What opportunity I have	13	*
	is I continue to have to be able to	14	1
	access their libraries is one example. I 09:30		BY ATTORNEY DAVIDSON: 09:32
	continue to be available to their other	16	•
1	researchers. The cancer center is the	17	` 1 &
	center that I interact most with. I still	18	,
	have some relationships and collaborations	19	- · · · · · · · · · · · · · · · · · · ·
1	there. I have an email address. I have no 09:30		, ,
	specific direct day-to-day responsibilities	21	BY ATTORNEY DAVIDSON:
	at that university.	22	Q. The last time you were paid by the
23	Q. What collaborations do you have	23	University of Alabama was sometime before
24	there currently?	24	2020?
25	A. Oh, a couple of scientific 09:30	25	ATTORNEY O'DELL: Object to the 09:32
	Page 27		Page 29
	collaborations.	1	form.
2	Q. What does that mean?	2	•
3	A. Meaning I can get access to samples	3	1 ,
	or other projects there.	4	
5	One investigator that I work 09:31	5	
1	closely with is a woman named Dr. Beth	6	, ,
	Brown. She studies multiple myeloma. She		it was for free?
	and I have been collaborators. I'd have to	8	
	look at my literature list for sure. I want	9	Q. I see. Okay.
	to say we have two or three publications 09:31	10	5 11
	together over the years.		primarily to provide mentorship and
12	Bruce Korf is another colleague.		oversight as part of the graduate program.
112	He and I have worked closely together on	13	·
1		14	HudsonAlpha Institute For Biotechnology,
14	different clinical initiatives, specifically		
14 15	in the state of Alabama. 09:31	15	they have a formal relationship with 09:32
14 15 16	in the state of Alabama. 09:31 Q. When you say collaborations, you're	15 16	they have a formal relationship with 09:32 University of Alabama Huntsville and
14 15 16 17	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the	15 16 17	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having
14 15 16 17	in the state of Alabama. 09:31 Q. When you say collaborations, you're	15 16 17 18	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two
14 15 16 17	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct? ATTORNEY O'DELL: Object to the	15 16 17 18	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having
14 15 16 17 18	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct?	15 16 17 18 19	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two
14 15 16 17 18 19	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct? ATTORNEY O'DELL: Object to the	15 16 17 18 19	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two institutions, we were able to participate in
14 15 16 17 18 19 20	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct? ATTORNEY O'DELL: Object to the form. 09:31	15 16 17 18 19 20 21	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two institutions, we were able to participate in the graduate programs. 09:33
14 15 16 17 18 19 20 21	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct? ATTORNEY O'DELL: Object to the form. 09:31 THE WITNESS: When I say	15 16 17 18 19 20 21 22	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two institutions, we were able to participate in the graduate programs. 09:33 We would often teach courses or
14 15 16 17 18 19 20 21 22	in the state of Alabama. 09:31 Q. When you say collaborations, you're not currently doing any work for the University of Alabama; correct? ATTORNEY O'DELL: Object to the form. 09:31 THE WITNESS: When I say collaborations, I mean a work or a	15 16 17 18 19 20 21 22 23	they have a formal relationship with 09:32 University of Alabama Huntsville and University of Alabama Birmingham. By having an adjunct appointment at those two institutions, we were able to participate in the graduate programs. 09:33 We would often teach courses or part of courses and then mentor graduate

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Page 30	Page 32
1 memory where I was participating on their	1 certainly unethical? I'm not sure
2 thesis committee at UAB. It was there	2 I would agree with.
3 was not a formal employment relationship	3 I would provide one point of
4 from a that you may be referring to.	4 clarification that some of the
5 Q. If I were to call the University of 09:33	5 publications, particularly the ones 09:36
6 Alabama and ask: Is Dr. Shawn Levy employed	6 that are involved in a consortia
7 as an adjunct faculty member at your	basis, the author list, rather than
8 university, would they say yes or no?	8 listing all individuals, will
9 A. If you ask if I was employed, they	9 occasionally in some examples, will
10 would certainly say no. 09:33	list the name of a specific consortia. 09:36
11 Q. If I were to call the University of	11 BY ATTORNEY DAVIDSON:
12 Alabama and ask: Is Dr. Shawn Levy	12 Q. Do you know how many articles there
13 currently appointed as an adjunct faculty	13 are listed in your 221 peer-reviewed
14 member at your university, would they say	14 publications where you're not actually
15 yes or no? 09:34	15 listed either as an author or a co-author? 09:36
16 A. They would say yes.	16 ATTORNEY O'DELL: Object to the
17 Q. Are you sure?	17 form.
18 A. Pretty sure because I can tell you	18 THE WITNESS: My understanding
19 as of in the certainly in the last 14 to	19 my testimony would be zero. As I
20 21 days, I can log in with my University of 09:34	20 said, none that I'm aware of. 09:36
21 Alabama ID and review my faculty profile	21 BY ATTORNEY DAVIDSON:
22 which says my adjunct appointment.	22 Q. Let's look at number 141.
23 Q. Doctor, your current CV lists 221	23 A. Number 141?
24 peer-reviewed publications; is that correct?	24 Q. Uh-huh.
25 A. It currently lists yes, that is 09:34	25 A. I have it, yeah. 09:37
23 A. It currently lists yes, that is 07.54	25 11. I have it, years. 07.57
Page 21	<u> </u>
Page 31	Page 33
1 correct. As of November, 2023.	Page 33 1 Q. This lists 23 authors.
<ol> <li>correct. As of November, 2023.</li> <li>Q. And you are either an author or</li> </ol>	Page 33  1 Q. This lists 23 authors.  2 Do you see your name there?
<ul> <li>1 correct. As of November, 2023.</li> <li>2 Q. And you are either an author or</li> <li>3 co-author of each of these publications?</li> </ul>	Page 33  1 Q. This lists 23 authors.  2 Do you see your name there?  3 A. I do not.
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	P 24			Do 26
1 O.	Page 34 What work did you do as a member of	1	ATTORNEY O'DELL: Object to the	Page 36
1	consortia on this?	$\frac{1}{2}$	form.	
	I was a co-investigator on the	$\frac{2}{3}$	THE WITNESS: Yes.	
	_	ļ .		
	agnosed Disease Network grant.	4		00.40
5 Q. 6 this a	Did you actually write any part of 09:38	5	Q. Okay. How about 154? Papanek,	09:40
			O'Dell. I'm pretty sure it's a different	
	I would have to look. Did I write		O'Dell. Manga, Giannone, Klingeman,	
	part of this article? I would have to		Hettich, Brown, and Guss.	
	closely at the article. But given my	9	Does that say Levy anywhere?	00.40
1	n that particular grant, the most 09:38	10	ATTORNEY O'DELL: Object to the	09:40
	contribution was in the method	11	form.	
	ons and some of the interpretation of	12	THE WITNESS: It does not.	
_	enetic testing.	13	BY ATTORNEY DAVIDSON:	
1	Are you able to say here today how	14	Q. So you are not listed as a	
15 many	of the articles out of these 221 you 09:38	15	co-author or author on 154 either; correct?	09:40
16 actua	lly contributed to the writing of?	16	ATTORNEY O'DELL: Object to the	
17	ATTORNEY O'DELL: Object to the	17	form.	
18 for	rm.	18	THE WITNESS: Again, I'd have to	
19 BY A	ATTORNEY DAVIDSON:	19	review the paper.	
20 Q.	As a co-author or author? 09:39	20	BY ATTORNEY DAVIDSON:	09:41
21	ATTORNEY O'DELL: Object to the	21	Q. What's the RNA Communication	
22 for	m.	22	Consortium?	
23	THE WITNESS: They're represented	23	A. So that consortium was a I'm	
1	the CV as that participation.	24	trying to think. How many? Five or six	
	ATTORNEY DAVIDSON: 09:39		centers that were studying RNA biology und	der 09:41
	Page 35			Page 37
1 Q.	I'm sorry?	1	a fairly wide variety of conditions.	_
2 A.	The reason they're on the CV was	2	Q. How many members in that	
1	o that contribution as part of that	3	consortium?	
1	ing a co-author or author on the paper.	4	A A T. 1.1	
		1	A. Again, I'd nave to I would nave	
	But we just I pointed you to two 09:39	5	A. Again, I'd have to I would have to review, but I would estimate 30 or so.	09:41
	But we just I pointed you to two 09:39 e you're not even listed as a member of		to review, but I would estimate 30 or so.	09:41
6 wher	e you're not even listed as a member of	6	to review, but I would estimate 30 or so. Again, I would have to review.	09:41
6 wher 7 a con	e you're not even listed as a member of sortium; right?	6 7	to review, but I would estimate 30 or so.  Again, I would have to review.  Q. Is it your testimony that every	09:41
6 wher 7 a con	e you're not even listed as a member of sortium; right? ATTORNEY O'DELL: Object to the	6 7 8	to review, but I would estimate 30 or so.  Again, I would have to review.  Q. Is it your testimony that every single member of that consortium was an	
6 wher 7 a con 8 9 for	e you're not even listed as a member of sortium; right? ATTORNEY O'DELL: Object to the rm.	6 7 8 9	to review, but I would estimate 30 or so.  Again, I would have to review.  Q. Is it your testimony that every single member of that consortium was an author or co-author of item 169 on your CV	?
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6 wher 7 a con 8 9 for 10 11 to 12 BY A 13 Q. 14 there 15 Netw 16 A. 17 Q. 18 A. 19 of ye 20 woul 21 of a 1 22 Q. 23 the n	e you're not even listed as a member of sortium; right? ATTORNEY O'DELL: Object to the rm. THE WITNESS: As I said, I'd have 09:39 review those. ATTORNEY DAVIDSON: Okay. Do you know how many members are of the Undiagnosed Diseases rork? 09:39 Yes, it's substantial. How many? I'm not sure. It's been a number ars since participating in that, but I d guess probably something in the range 09:40 nundred. Do you think all hundred members of on-diagnosed Undiagnosed Diseases rork are authors or co-authors of this	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	to review, but I would estimate 30 or so.  Again, I would have to review.  Q. Is it your testimony that every single member of that consortium was an author or co-author of item 169 on your CV ATTORNEY O'DELL: I'm sorry. Did you mean 169 or 154? I thought that was what you were asking about.  ATTORNEY DAVIDSON: I meant 16 ATTORNEY O'DELL: So that's different than what you were just 09 asking about.  ATTORNEY DAVIDSON: We're don with 154.  ATTORNEY O'DELL: All right.  We're on 169. 09:42  BY ATTORNEY DAVIDSON:  Q. Is it your testimony that every member of the RNACC was an author or co-author of item 169?	? 1 09:41 59.

Page 38	Page 40
1 particularly that publication since it was	1 ATTORNEY O'DELL: Object to the
2 describing the consortia.	2 form.
3 Q. Can you tell me today what you	3 THE WITNESS: Not necessarily. I
4 specifically contributed to this paper?	4 think it would depend on the
5 ATTORNEY O'DELL: Dr. Levy, if you 09:42	
6 need to pull up the paper and review	6 BY ATTORNEY DAVIDSON:
7 it in order to describe your 8 contributions, you're welcome to do	<ul><li>7 Q. If a graduate student at the</li><li>8 University of Alabama fabricated authorship</li></ul>
9 that. If you don't, of course, you	l
10 may give your answer. 09:42	9 of articles on their CV, would they be 10 subject to disciplinary action? 09:44
11 BY ATTORNEY DAVIDSON:	11 ATTORNEY O'DELL: Objection.
12 Q. I'm asking you, if you can	12 Incomplete hypothetical, misstates
13 remember, sitting here today	13 prior testimony.
14 ATTORNEY O'DELL: To be clear	13 prior testiniony. 14 THE WITNESS: How would you define
15 BY ATTORNEY DAVIDSON: 09:42	15 "fabricates"? You mean an article 09:44
	16 being listed incorrectly but an
16 Q. When Leigh questions you, you're 17 welcome to pull up the paper. I'm asking	otherwise accurate author list? Or
18 you if you can recall any contribution you	18 somebody representing themselves as an
19 made to the paper.	19 author when they were not?
20 ATTORNEY O'DELL: If that's the 09:42	20 BY ATTORNEY DAVIDSON: 09:44
21 question, if he recalls, he's welcome	21 Q. Someone representing on their CV
to pull up the paper to refresh his	22 that they're an author of publications,
23 recollection if he needs to do that.	23 which they are not.
24 If he doesn't, that's fine.	24 A. Again, it would depend on I
25 THE WITNESS: So my recollection, 09:43	25 think it would depend on the circumstances. 09:45
,	
Page 39  1 in looking at the timing of this	Page 41  1 Q. Do you know what the University of
2 paper, is my laboratory was	2 Alabama Birmingham authorship policy states?
3 participating in this as a	3 A. I've not reviewed it, no.
4 methodological and technology provider	4 ATTORNEY O'DELL: Excuse me,
5 in terms of methods for sequencing 09:43	5 Jessica. While you're looking at your 09:45
6 extracellular RNAs from extracellular	6 notes, Lisa, Paula Brown is waiting in
7 vesicles. This was an offshoot from	7 the waiting room. Would you mind
8 some of the work that began earlier at	8 letting her in, please.
9 Vanderbilt University, where I believe	9 BY ATTORNEY DAVIDSON:
there was another publication on the 09:43	10 Q. Is there a difference between 09:45
11 CV discussing urine microvesicles that	11 authoring a paper and being acknowledged in
began in my work there.	12 a paper?
13 BY ATTORNEY DAVIDSON:	13 A. Yes.
14 Q. What did you, Dr. Levy, contribute	14 Q. Have you ever authored any
15 to this actual paper? 09:43	15 publications concerning ovarian cancer? 09:46
16 A. Commentary around the	16 A. I'd have to review the list. But
17 methodological details and some of the goals	17 none specifically on ovarian cancer that
18 of the consortia. I would have to review	18 come to mind.
19 the paper in more detail to provide you a	19 Q. Do you recall authoring any papers
20 more precise answer. 09:43	20 regarding talc or asbestos? 09:46
21 Q. If you were interviewing an	21 A. No, I have not authored papers
22 employee who listed articles on his or her	22 regarding talc or asbestos.
23 CV in which he or she was not an author or	23 Q. Are you currently working on any
24 co-author, would that disqualify that	24 papers regarding tale, asbestos, or ovarian
25 person, in your view, from employment? 09:44	25 cancer? 09:46
1 20 person, in your view, from employment: 07.44	25 carreer. 07.70

	Page 42		Page 44
1	A. Not currently.	1	would defer to some of the other reports
2	Q. Have you spoken in any public	2	that were specifically developed to make
3	forums about talc or ovarian cancer since	3	that assessment. On my own review of those
4	2019?	4	reports, I'm supportive of their
5	A. I have not. 09:46	5	conclusions. 09:48
6	Q. Have you made any public statements	6	Q. What do you mean by you're
7	concerning talc or ovarian cancer or written	7	supportive of their conclusions?
8	5 61 5	8	A. Meaning that I found the reports to
9		9	be thorough and grounded in good scientific
10	A. I have not. 09:46	10	methodology to develop that conclusion. 09:48
11	Q. Are you currently, or have you been	11	Q. So you are offering an opinion on
	in the last four years, retained as an	12	the other experts' reports?
13		13	ATTORNEY O'DELL: Objection to the
14		14	
15	Q. Have you ever reached out to any 09:47	7 15	THE WITNESS: No. I said that I 09:49
1	health organization to express your concerns	16	found their reports to be compelling,
17		17	but again
18	,	18	BY ATTORNEY DAVIDSON:
19		19	Q. Whose reports are those?
	this litigation that talc causes ovarian 09:47	20	ATTORNEY O'DELL: Excuse me. Let 09:49
1	cancer?	21	him finish, please.
22	1	22	r
	provide an opinion on.	23	1 0
24	5 1	24	
25	then? 09:47	25	presented. I have not taken the time 09:49
	Page 43		Page 45
1	ATTORNEY O'DELL: Object to the	1	1
2	form. He gave you his answer to the	2	
3	question.	3	•
4	THE WITNESS: I wasn't asked to	4	
5	provide an opinion on any causation. 09:47	5	
6		6	E
7	Q. I understand.	7	
8	Does that mean you're not offering	8	, 11
	the opinion that talc causes ovarian cancer?	9	
10	A. No. I'm answering your question, 09:47		BY ATTORNEY DAVIDSON: 09:49
1	which is I was not asked to offer an opinion	11	Q. Which reports are you talking about
1	on causation. So, therefore, to offer such		that you found so compelling?
	an opinion to give you a yes-or-no answer	13	•
1	would be a different it's certainly a	14	
	different exercise than what I was asked to 09:47	15	
	do.  O There were a lot of pegatives in		causation. If you're asking: Did I find
17	Q. There were a lot of negatives in that sentence.	17	
19	Do I understand your testimony to	19	compelling? Is that your question?  Q. Sure.
	be that you will not come to court and say 09:48	20	-
21		20 21	•
21 22	A. That I will not say talc causes		findings of fibrous material in the
23			pathology slides.
24	Q. Yes.	23	
25	A. I would only be able to offer I 09:48		it's important to look at the totality of 09:50
. / 1	A. I WOULD OILLY DE ADIE 10 OILEI I U7.40	43	it's important to look at the totality of 09.30

12 (Pages 42 - 45)

1 the scientific evidence on a topic; right? 2 A. I do. 3 Q. And you would agree it's important 4 as a scientist not to just look at one-sided 5 scientific evidence; right? 6 A. When available, yes. 7 Q. So did you ask plaintiff's counsel 8 to provide you with the defense reports that 9 respond to Dr. Wolf and Dr. Godleski? 10 ATTORNEY O'DELL: Object to the 11 form. 12 THE WITNESS: I did not 13 specifically ask that question. 14 BY ATTORNEY DAVIDSON: 15 Q. Have you reviewed any defense 16 expert reports responding to any of 17 plaintiff's expert reports throughout the 18 course of this MDL regarding general 19 causation? 20 ATTORNEY O'DELL: Object to the 21 form. As you know, they're not 22 defense expert reports 23 ATTORNEY DAVIDSON: Leigh, you are 24 not testifying in this case. 25 ATTORNEY O'DELL: Don't interrupt 26 ATTORNEY O'DELL: Don't interrupt 27 ATTORNEY O'DELL: Don't interrupt 28 ATTORNEY O'DELL: Don't interrupt 29 ATTORNEY O'DELL: Don't interrupt 20 BY ATTORNEY DAVIDSON: 2 Q. Do you know how many defense 3 epidemiology expert reports have been 4 submitted in the MDL proceeding? 5 A. I do not. 09:52 6 Q. Have you had the opportunity to 7 look at the National Cancer Institute PDQ on 8 ovarian cancer since your last deposition? 9 A. The PDQ. I'm not that doesn't 10 sound familiar. Is there could that be 09 11 provided in the chat, and I can give you a 12 better answer if I can take a look at it? 13 Q. Do you recall being asked about the 14 NCI PDQ at your last deposition? 15 A. Sorry. What is PDQ? 16 Q. Have you heard of the National 17 Cancer Institute PDQ? 18 A. Again, I'd ask what I don't 19 recall what PDQ is. 20 Q. You're not familiar with that 21 document? 22 A. No. 23 ATTORNEY O'DELL: He's requested 24 to see the document you're asking him 25 about, Jessica. Are you refusing to 09:51				
2 A. I do. 3 Q. And you would agree it's important 4 as a scientist not to just look at one-sided 5 scientific evidence; right? 09:50 6 A. When available, yes. 7 Q. So did you ask plaintiff's counsel 8 to provide you with the defense reports that 9 respond to Dr. Wolf and Dr. Godleski? 10 ATTORNEY O'DELL: Object to the 11 form. 12 THE WITNESS: I did not 13 specifically ask that question. 14 BY ATTORNEY DAVIDSON: 15 Q. Have you reviewed any defense 19 causation? 16 expert reports responding to any of 17 plaintiff's expert reports throughout the 18 course of this MDL regarding general 19 causation? 20 ATTORNEY O'DELL: Object to the 21 form. As you know, they're not 22 defense expert reports 23 ATTORNEY DAVIDSON: Leigh, you are 24 not testifying in this case. 25 ATTORNEY O'DELL: It is an 09:51 6 Oy. Levy, I'm going to ask the 9 question again. 10 Throughout the course of this MDL 10 Throug				Page 48
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15 form. 09:51 15 it to him. 09:53		•		-
16 THE WITNESS: We discussed earlier 16 ATTORNEY DAVIDSON: Okay. Thank				
				•
17 which expert reports you had asked 17 you, Leigh.		1 1 1		•
18 that I had reviewed. So outside of  18 BY ATTORNEY DAVIDSON:				
19 those and, again, I would need to 19 Q. Are you familiar that NCI puts out		_		
		•		
21 were specifically about causation. 21 That's all I'm asking.				
22 Again, I don't recall if they were. 22 ATTORNEY O'DELL: And if you need		•		
23 But outside of the ones we earlier 23 to see it to refresh your				· · · · · · · · · · · · · · · · · · ·
24 discussed, no, I have not. 24 recollection, Dr. Levy, I'm sure				-
25 /// 25 counsel will comply with your request. 09:54	25	5 ///	25	counsel will comply with your request. 09:54

	Page 50	
1	THE WITNESS: As I said, I was	1 ATTORNEY O'DELL: Object to the
2	just asking for either a reference to	2 form.
3	the document or a definition of what	3 THE WITNESS: No. My testimony
4	PDQ is. My answer is perhaps, without	4 was that I did a broad review of both
5	looking at it in more detail. 09:54	5 scientific literature and searches, 09:56
6	As I'm sure you're aware, the NCI	6 and in doing so, recall seeing
7	produces a tremendous amount of	7 materials from some or all of those
8	educational information in a wide	8 organizations. But I can't tell you
9	variety of formats, both for their	9 specifically which page or other
10	funded investigators as well as lay 09:54	10 material if it wasn't cited in the 09:56
11	audiences. So I would need to see	11 report.
12	what you're referring to.	12 BY ATTORNEY DAVIDSON:
13	BY ATTORNEY DAVIDSON:	13 Q. My question is different.
14	Q. In preparation for this deposition,	14 My question is: Do you know
15	did you do any research into NCI, American 09:54	4 15 whether the National Cancer Institute, the 09:56
16	Cancer Institute, CDC, or any major United	16 American Cancer Society, the CDC, ACOG, or
	States public health organization and their	17 SGO has made any statement about the
18	views on talc and ovarian cancer?	18 allegation that perineal talc use causes
19	ATTORNEY O'DELL: Object to the	19 ovarian cancer?
20	form. Vague. 09:54	20 ATTORNEY O'DELL: Object to the 09:56
21	THE WITNESS: I performed as broad	21 form. Compound.
22	a search in the scientific literature.	22 THE WITNESS: No, not that I'm
23	In general, websites for associations	23 aware. But as I said, I don't know of
24	between talc and a variety of	24 any statements from those
25	phenotypes, including cancer. So I am 09:55	25 organizations on any causative aspects 09:57
	Page 51	
1	sure that I have that I did review	1 of nearly any disease. Those
2		2 organizations generally don't make
3	organizations you've mentioned.	3 definitive statements as to areas of
4	•	4 causation.
5	Q. Do you know what the positions are 09:55	5 BY ATTORNEY DAVIDSON: 09:57
	of the National Cancer Institute, the CDC,	6 Q. If you're not giving an opinion on
1	the American Cancer Society, the Society of	7 general causation, why are you addressing
1	Gynecologic Oncology, or ACOG with respect	8 epidemiology in your report?
1	to the allegation that perineal talc causes	9 A. Because I was asked to provide an
	ovarian cancer? 09:55	10 opinion as to the totality of the 09:57
11	ATTORNEY O'DELL: Object to the	11 information available relative to risk and
12	•	12 biological plausibility of talc contributing
13	E i	13 to the initiation, progression, or overall
14		14 phenotype of ovarian cancer. So the
15	specifically? 09:55	15 epidemiology certainly plays into that 09:57
	BY ATTORNEY DAVIDSON:	16 opinion.
17	Q. Any of them.	17 Q. Is it your testimony that you have
18	-	18 done a complete comprehensive evaluation of
	statement regarding causation on any of	19 the epidemiology?
20		20 A. I would say I have done a thorough 09:58
21	Q. Okay.	21 evaluation of the epidemiology.
22	·	22 Q. Does your report address all of the
23	Q. But it's your testimony that you	23 major epidemiological studies on talc use
	checked the websites of all those	24 and ovarian cancer?
1	organizations? 09:56	25 A. The report wasn't asked to, again, 09:58

D 51	D 56
Page 54  1 provide an epidemiology review. The report	Page 56 1 (Exhibit Number 2 was marked for
2 was asked to provide a biological two	2 identification.)
3 things. One was updates to the biological	3 BY ATTORNEY DAVIDSON:
4 plausibility, meaning more on the	4 Q. Actually
5 mechanistic effect and biology there. 09:58	5 A. Sorry, which page? 15? 10:01
6 Separately, I was asked to provide some	6 Q. Top of 15.
7 opinions around the genetic testing results	7 A. I have it. I'm looking at a paper
8 of a specific subset of plaintiffs.	8 copy.
9 Q. So how did you decide which	9 Q. On pages 14 and 15 you say: A more
10 epidemiologic studies to mention in your 09:58	10 recent meta-analysis focusing on frequent 10:01
11 report and which not to mention?	11 use (at least twice per week) concluded the
12 A. I tried to reference more of the	12 increased risk of ovarian cancer with
13 encompassing review articles and	13 perineal exposure was 31 to 65 percent
14 meta-analysis, and then also some of the	14 (Woolen, Lazar and Smith-Bindman 2022).
15 cohort and case-control studies that were 09:59	15 Do you see that? 10:01
16 larger, meaning encompassing more patients	16 A. I do see that.
17 or more participants.	17 Q. Are you aware that that
18 Q. Did you address the largest pooled	18 meta-analysis grew out of work that was done
19 analysis of cohort studies done to date?	19 for this litigation by a plaintiff's expert?
20 ATTORNEY O'DELL: Object to the 09:59	20 ATTORNEY O'DELL: Object to the 10:02
21 form.	21 form.
22 THE WITNESS: I would have to	22 THE WITNESS: I am aware of that
23 review to answer the to give you an	23 now.
24 answer as to largest.	24 BY ATTORNEY DAVIDSON:
25 ///	25 Q. How did you become aware of that? 10:02
Page 55	Page 57
1 BY ATTORNEY DAVIDSON:	1 A. It came up in my discussions.
2 Q. And it's your testimony that you	2 ATTORNEY O'DELL: You may say
3 decided that you identified all the epi	3 that, but you can't go beyond that in
4 studies yourself and that you decided which	4 terms of discussions with
5 ones to include in your report, not counsel? 09:59	5 ATTORNEY DAVIDSON: I'm not asking 10:02
6 A. I decided which ones to include in	6 about your discussions with counsel.
7 my report as part of the preparation for	7 That is privileged.
8 this deposition, I was provided the report	8 THE WITNESS: I was not aware of
9 of again, I would have to look. I'm not	9 that when it was referenced. I became
10 looking at the moment. I believe it was 10:00	10 aware of it after the report was 10:02
11 contained in Dr. Wolf's expert report.	11 drafted.
12 There were force plots summarizing a large	12 BY ATTORNEY DAVIDSON:
13 number of studies. What I recall in my	13 Q. When you put this in your expert
14 report is the there were two review	14 report, you didn't realize that
15 articles. And in that review article were a 10:00	15 Dr. Smith-Bindman is a plaintiff's expert? 10:02
16 number of references for both cohort as well	16 A. No, I had no knowledge of that at
17 as meta-analysis studies. I was not	17 the time.
18 provided specific scientific literature by	18 Q. Did you read the paper?
19 the plaintiff attorneys to be included in	19 A. Yes.
	<ul><li>19 A. Yes.</li><li>20 Q. Did you read the conflict of 10:02</li></ul>
19 the plaintiff attorneys to be included in	
19 the plaintiff attorneys to be included in 20 the report. 10:00	20 Q. Did you read the conflict of 10:02
<ul> <li>19 the plaintiff attorneys to be included in</li> <li>20 the report. 10:00</li> <li>21 Q. Let's mark your report as</li> <li>22 Exhibit 2. Amended Rule 26 expert report</li> <li>23 Shawn Levy, dated November 15 as Exhibit 2,</li> </ul>	20 Q. Did you read the conflict of 10:02 21 interest disclosure?
<ul> <li>19 the plaintiff attorneys to be included in</li> <li>20 the report. 10:00</li> <li>21 Q. Let's mark your report as</li> <li>22 Exhibit 2. Amended Rule 26 expert report</li> </ul>	<ul> <li>Q. Did you read the conflict of 10:02</li> <li>interest disclosure?</li> <li>A. Again, I'd have to look at the</li> </ul>

	Page 58		Page 60
1 A. During my review, I may not I	I	My question is: Do you know why	1 age of
2 would say it would be fair to say I did	I	lidn't cite O'Brien 2020 in this report?	
3 not look at every conflict of interest		ATTORNEY O'DELL: Objection to th	e
4 statement or necessarily reference material		m. Asked and answered.	
5 or even author affiliations, as an example,			10:05
6 as when I was reviewing some of this		look at the paper to give you an	
7 literature.	_	swer.	
8 Q. Do you know how many papers you		ATTORNEY DAVIDSON:	
9 cited in your amended report that were, in		You'd have to look at the paper to	
	_	ne why it wasn't cited? 10:05	
11 plaintiff's experts in this litigation?		ATTORNEY O'DELL: Object to the	
12 ATTORNEY O'DELL: Object to the	12 for	· ·	
13 form.		THE WITNESS: To tell you if I had	
14 THE WITNESS: No, I do not. I		en it and whether or not I chose not	
15 don't know that. I don't know the 10		include it or whether I didn't find 10:0	15
identity of all of the plaintiff's			)3
witnesses.	I	paper. Again, that's why I	
17 witnesses. 18 BY ATTORNEY DAVIDSON:	I	ould need to look that's why I'm	
		ring I need to review.	
19 Q. Did you notice the conflict of		ATTORNEY DAVIDSON:	10.05
, I I	"	What was the search term you used?	10:05
21 you read?		There were several	
A. None stood out to me.		That pulls up Woolen?	
Q. And you located the Woolen paper by		I can't answer. I can't give you	
24 yourself?		curate answer to that to know	0.07
25 A. As far as I recall, yes. 10:03	25 speci	fically. I generally was using terms 1	0:05
1 O When you did your count did you	Page 59		Page 6
Q. When you did your search, did you		as ovarian cancer, talc, and things	
2 locate a paper by O'Brien from NIH		those lines.	
3 addressing a pooled cohort of a pooled		And you searched in PubMed?	
4 analysis of cohort studies?	I	PubMed, Google Scholar.	10.05
5 A. I believe so. O'Brien sounds 10:		J P P	10:05
6 familiar. I would need to double-check if		varian cancer in the title, it's fair	
7 I've cited that in the report or not.		sume, would have been picked up?	
8 Q. You did not cite it in this report.		ATTORNEY O'DELL: Object to the	
9 Do you know why?	9 for		
10 ATTORNEY O'DELL: Object to the	10:04 10	THE WITNESS: Fair to assume.	10:06
10 ATTORNEY O'DELL: Object to the form.	10:04   10	THE WITNESS: Fair to assume. TTORNEY DAVIDSON:	10:06
10 ATTORNEY O'DELL: Object to the 11 form. 12 THE WITNESS: No. I would have to	10:04   10	THE WITNESS: Fair to assume. TTORNEY DAVIDSON: Okay.	10:06
ATTORNEY O'DELL: Object to the form.  THE WITNESS: No. I would have to see if it was part of the again, I	10:04 10 7 11 BY A 12 Q. 13 A.	THE WITNESS: Fair to assume. ATTORNEY DAVIDSON: Okay. Now, my search was biased towards	10:06
ATTORNEY O'DELL: Object to the form.  THE WITNESS: No. I would have to see if it was part of the again, I would need to review their as I	10:04 10 7 11 BY A 12 Q. 13 A. 14 more	THE WITNESS: Fair to assume. ATTORNEY DAVIDSON: Okay. Now, my search was biased towards recent references, again, given the	10:06
ATTORNEY O'DELL: Object to the form.  THE WITNESS: No. I would have to see if it was part of the again, I would need to review their as I	10:04 10 7 11 BY A 12 Q. 13 A. 14 more	THE WITNESS: Fair to assume. ATTORNEY DAVIDSON: Okay. Now, my search was biased towards	10:06 10:06
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ATTORNEY O'DELL: Object to the form.  THE WITNESS: No. I would have to see if it was part of the again, I would need to review their as I mentioned in the earlier part of the testimony, there were some review articles as well as some of the more	10:04   10   7   11   BY A   12   Q.   13   A.   14   more   15   reque   16   opinio   17   repor	THE WITNESS: Fair to assume. ATTORNEY DAVIDSON: Okay. Now, my search was biased towards recent references, again, given the ests of what I was asked to provide an on on in terms of the update to the	
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ATTORNEY O'DELL: Object to the form.  THE WITNESS: No. I would have to see if it was part of the again, I would need to review their as I mentioned in the earlier part of the testimony, there were some review articles as well as some of the more encompassing papers that may have included that in that. I do believe it was in the summary force plots that	10:04 10 7 11 BY A 12 Q. 13 A. 14 more 15 reque 16 opinid 17 repor 18 Q. 19 right <sup>2</sup> 20 was 2 21 A. 22 Q.	THE WITNESS: Fair to assume. ATTORNEY DAVIDSON: Okay. Now, my search was biased towards recent references, again, given the ests of what I was asked to provide an on on in terms of the update to the t. But you did add papers from 2019; On page 14 you added Taher, which 2019; right? 10:06 Correct.	

1	Page 62 more references current from the	1	Page 64 to synthesize additional conclusions
2		2	or information from that work.
3		_	BY ATTORNEY DAVIDSON:
4			
	BY ATTORNEY DAVIDSON: 10:06	4	Q. Is the systematic review you
			conducted of the epidemiological literature 10:08 all set forth on pages 14 through 16?
6	Q. But the paper I'm asking about is 2020.	7	ATTORNEY O'DELL: Object to the
1		8	form.
8		9	THE WITNESS: No, I wouldn't is
9			
10	Q. Did you conduct a systematic review 10:06 of epidemiologic literature?	10 11	it all set forth? I would say during 10:08
12	•	12	my review, the literature that was
			supportive of my opinion and also
	epidemiologic literature, as I answered. As	13	supportive of the of that review is
1	far as using terms like "complete" or	14	contained. And then there's and
1	"systemic," I think that would be open to 10:07	15	for many of these papers, it's 10:09 literature cited therein.
1	probably opinion.	16	
17 18	•	18	BY ATTORNEY DAVIDSON:
			Q. How can I see the steps you took in
19			your systematic review?
20	1	20	ATTORNEY O'DELL: Objection to 10:09
1	opinion?	21	form.
22	1 ,	22	THE WITNESS: Well, I think that's
	fully comprehensive. Is there the	23	what we're discussing today. BY ATTORNEY DAVIDSON:
1	possibility of seeing every single piece of		
23	literature in epidemiology? Certainly. 10:07	25	Q. Are the steps in your systematic 10:09
1	Page 63 But, again, it's a very it's a broad	1	Page 65 review laid out somewhere?
1	question.	$\frac{1}{2}$	A. No, I didn't I wasn't I did
3	<del>-</del>		not include, nor was I asked to provide, the
1	Q. The word I used was "systematic"; right?		-
5	_		steps that were taken in the systematic review. 10:09
	<u>,                                      </u>	_	Q. Did you follow a specific protocol
1	review as systematic.  Q. What is a systematic review?	6	for your systematic review?
8	-	8	ATTORNEY O'DELL: Object to the
9		9	· ·
1	systematic review is in the scientific 10:07	10	form. THE WITNESS: I mean, I followed a 10:10
11		11	generally accepted process, I would
12		12	say, in the scientific world or with
13	3	13	some of my background and experience
14		14	
15	1	15	specific subject area to develop an 10:10
1		16	opinion on the materials that I was
16		17	asked to develop an opinion on.
16 17	that it would begin with a search	1 /	
17	<u>c</u>	1Ω	
17 18	And then starting through those	18	Again, that included reviewing the
17 18 19	And then starting through those papers, there's a process of reviewing	19	available peer-reviewed literature as
17 18 19 20	And then starting through those papers, there's a process of reviewing for older papers, what they have been 10:08	19 20	available peer-reviewed literature as well as the available materials that 10:10
17 18 19 20 21	And then starting through those papers, there's a process of reviewing for older papers, what they have been 10:08 cited by. And then for papers that	19 20 21	available peer-reviewed literature as well as the available materials that 10:10 are outside of the peer-reviewed
17 18 19 20 21 22	And then starting through those papers, there's a process of reviewing for older papers, what they have been 10:08 cited by. And then for papers that are newer, what there are citations	19 20 21 22	available peer-reviewed literature as well as the available materials that 10:10 are outside of the peer-reviewed literature that I could also find via
17 18 19 20 21 22 23	And then starting through those papers, there's a process of reviewing for older papers, what they have been cited by. And then for papers that are newer, what there are citations of. And then continuing that with, as	19 20 21 22 23	available peer-reviewed literature as well as the available materials that 10:10 are outside of the peer-reviewed literature that I could also find via searching through either Web-based or
17 18 19 20 21 22	And then starting through those papers, there's a process of reviewing for older papers, what they have been cited by. And then for papers that are newer, what there are citations of. And then continuing that with, as I said, review articles or other	19 20 21 22	available peer-reviewed literature as well as the available materials that 10:10 are outside of the peer-reviewed literature that I could also find via searching through either Web-based or materials that were available to me.

Page 66  1 BY ATTORNEY DAVIDSON:	1	Page 68 A. No, it's not my testimony.
2 Q. So did you review a lot of epi		Q. I'm confused.
3 studies that aren't actually listed under		A. I said it was systematic, but I did
4 materials reviewed?		t make
		Q. Your review of the epidemiologic 10:12
5 ATTORNEY O'DELL: Object to the 10:10 6 form.		erature was systematic?
	7	ATTORNEY O'DELL: Let him finish
<ul><li>7 THE WITNESS: No, I wouldn't say a</li><li>8 lot. Again, I was reviewing the</li></ul>		
9 available the materials I could	9	his answer, please.
10 find and that I was able to access, 10:11		THE WITNESS: Your specific
•		question is on: Was my review of the 10:12 epidemiological literature systematic
ē ;		
1 1		and comprehensive? And my response is
in the public domain as well as some		that my review of the literature, in
of the websites that we were talking		general, and that review was not
about earlier. I didn't necessarily 10:11		specific to epidemiology. 10:12
16 reference if I did not pull a fact		Y ATTORNEY DAVIDSON:
or an opinion or a conclusion or a		Q. But it included epidemiology?
18 piece of data from a paper, then I		A. Yes, correct.
19 would not have referenced it in the		Q. As part of that review, did you
20 report; therefore, not necessarily 10:11		view all the relevant epidemiology? 10:13
21 everything I looked at is contained in		A. As far as I know.
22 the report.		Q. So is it your testimony here today
23 BY ATTORNEY DAVIDSON:		at your materials reviewed list includes
Q. This is what I'm confused about.		the relevant epidemiology?
25 You said you did a systematic review. 10:11	25	ATTORNEY O'DELL: Object to the 10:13
Page 67 You said it was a comprehensive	1	Page 69 form.
2 review of the epidemiological literature;	2	
3 correct?		THE WITNESS: Again, I can't answer that because I don't know what
4 ATTORNEY O'DELL: Object to the		
5 form. 10:11		the universe of epidemiological literature is in relation to this. 10:13
6 THE WITNESS: No. I said I		Y ATTORNEY DAVIDSON:
		I ATTORNET DAVIDSON:
•		O Is it your testiment that your
Q systematic yes I did not make an		Q. Is it your testimony that your
8 systematic, yes. I did not make an	8 m	aterials reviewed list includes all the
9 assessment as to how comprehensive it	8 m	aterials reviewed list includes all the oidemiology that would be pulled up by
9 assessment as to how comprehensive it 10 may have been with respect to 10:11	8 m 9 ep 10 do	aterials reviewed list includes all the bidemiology that would be pulled up by bing a search in PubMed for talc and 10:13
9 assessment as to how comprehensive it 10 may have been with respect to 10:11 11 specifically the epidemiology	8 ma 9 ep 10 do 11 ov	aterials reviewed list includes all the oldemiology that would be pulled up by bing a search in PubMed for talc and varian cancer?
9 assessment as to how comprehensive it 10 may have been with respect to 10:11 11 specifically the epidemiology 12 literature. I was not searching with	8 ms 9 ep 10 do 11 ov 12	aterials reviewed list includes all the bidemiology that would be pulled up by bing a search in PubMed for talc and 10:13 varian cancer?  ATTORNEY O'DELL: Objection to the
9 assessment as to how comprehensive it 10 may have been with respect to 10:11 11 specifically the epidemiology 12 literature. I was not searching with 13 any specificity towards epidemiology	8 ms 9 ep 10 do 11 ov 12 13	aterials reviewed list includes all the bidemiology that would be pulled up by bing a search in PubMed for talc and 10:13 varian cancer?  ATTORNEY O'DELL: Objection to the form.
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Page 70	Page 72
1 analysis to answer the question: Is	1 been going about an hour and five
2 my materials cited list comprehensive	2 minutes. Can we take a five-minute
3 as it relates to talc and ovarian	3 ATTORNEY DAVIDSON: I just have
4 cancer epidemiological data?	4 one more question, and we can take a
5 From looking at the I would say 10:14	5 break. 10:16
6 it is systematic. And I would say it	6 ATTORNEY O'DELL: Sure.
7 is reasonably comprehensive, given the	7 BY ATTORNEY DAVIDSON:
8 studies that were found and the more	8 Q. Dr. Levy, are the steps of your
9 recent ones that are encompassing to	9 systematic review written anywhere?
10 the older studies, but I can't give 10:14	10 ATTORNEY O'DELL: Object to the 10:16
11 you an answer as to how complete that	11 form.
may be in relation to all of the	12 THE WITNESS: Are you asking: Did
13 available literature because I didn't	13 I write down the specific methodology
14 perform that analysis.	that I used in this particular search?
15 BY ATTORNEY DAVIDSON: 10:14	_
16 Q. So just to make sure I understand,	16 Q. Yes.
17 your testimony today is that you did a	17 A. No, I did not.
18 systematic analysis, but you don't know how	18 Q. And did you follow any written
19 complete it was?	19 systematic review guidelines that are
1	20 contained anywhere in the textbook or 10:16
21 form.	21 guidebook?
22 BY ATTORNEY DAVIDSON:	A. Do you have an example of such
23 Q. I believe that's what you just	23 guidelines, and I can tell you if they were
24 said.	24 the same if they were similar to or what
25 A. No. I said I did an analysis of 10:14	25 percentage I followed of them? But I 10:16
Page 71	Page 73
1 the available literature to develop the	1 used
2 opinions that are expressed in the report,	2 Q. I'm asking
3 and I believe that that analysis is complete	3 ATTORNEY O'DELL: Please continue.
4 with respect to those opinions. But your	4 THE WITNESS: I would say I used
5 question was: Was it fully comprehensive to 10:15	5 generally accepted methodological and 10:16
6 all of the literature available? And I	6 tools available for performing a
7 didn't perform that analysis.	7 scientific literature review to
8 Q. Is it your opinion that you can do	8 provide an opinion on a specific
9 a systematic review while only reviewing	9 subject, that I would expect it to be
10 some of the available literature? 10:15	10 viewed by colleagues in the field to 10:17
11 ATTORNEY O'DELL: Objection to the	be, you know, in a standard and
form. That's not what he said.	12 acceptable practice for this with
13 THE WITNESS: Well, you can	someone with my experience and
14 certainly perform a systematic review	14 background.
15 that is not comprehensive. They're 10:15	15 BY ATTORNEY DAVIDSON: 10:17
16 not mutually inclusive of each other.	16 Q. Can you point to any citation for
17 A systematic process doesn't	17 the fact that your systematic review is one
18 necessarily have to be comprehensive.	18 that's accepted in the scientific community?
19 As I stated, the focus was on the more	19 ATTORNEY O'DELL: Object to the
20 current literature, which by its 10:15	20 form. 10:17
21 nature, at least in the scientific	21 THE WITNESS: No. I'm not aware
<ul><li>21 nature, at least in the scientific</li><li>22 literature space, is generally</li></ul>	
	21 THE WITNESS: No. I'm not aware
22 literature space, is generally	21 THE WITNESS: No. I'm not aware 22 of any documented process that would

Page 74	Page 76
1 take our break now, Leigh.	1 BY ATTORNEY DAVIDSON:
2 (Recess taken from 10:17 a.m. to	2 Q. Do you know whether any of the
3 10:32 a.m.)	3 authors of this paper are plaintiff's
4 BY ATTORNEY DAVIDSON:	4 experts?
5 Q. Dr. Levy, is there anywhere where 10:32	5 ATTORNEY O'DELL: Object to the 10:36
6 you saved the searches you did?	6 form.
7 ATTORNEY O'DELL: Object to the	7 THE WITNESS: No. I don't see any
8 form. Vague.	8 names that I recognize as a
9 THE WITNESS: No, not specifically	9 plaintiff's witness.
10 the searches that I performed. The 10:33	10 BY ATTORNEY DAVIDSON: 10:36
11 closest thing to saved would be	11 Q. Okay. Let's look at Davis, 2021.
12 browser history.	Same here? Don't recognize any
13 BY ATTORNEY DAVIDSON:	13 do you recognize any names here?
14 Q. Your most recent materials and data	14 ATTORNEY O'DELL: Objection to the
15 considered list was produced on May 4th. 10:33	15 form. 10:36
16 Let's mark that as Exhibit 3.	16 BY ATTORNEY DAVIDSON:
17 (Exhibit Number 3 was marked for	17 Q. As plaintiff's experts?
18 identification.)	18 A. Not specifically as a plaintiff's
19 BY ATTORNEY DAVIDSON:	19 expert. But I would have to again, I
20 Q. Did you personally create this 10:33	20 would have to clarify. The Beeghly-Fadiel 10:37
21 list, or was it created by the plaintiff's	21 name is familiar, but I don't know if it's
22 lawyers?	22 from seeing that name in other publications
23 A. I'm looking at the list now. This	23 or I don't think it's a plaintiff's
24 summary format of the list I did not create.	24 witness. That's the only one for this
25 Q. Okay. 10:33	25 particular paper that looks familiar. 10:37
Page 75	Page 77
1 ATTORNEY DAVIDSON: Noah, if you	1 Again, I'd have to nothing else is
2 could put that up on the screen. Can	2 familiar.
3 you put it in the chat as well?	
1	3 Q. So my question is this: You added
4 ATTORNEY EPSTEIN: I believe it's	3 Q. So my question is this: You added 4 six epi studies to your materials reviewed;
1	
4 ATTORNEY EPSTEIN: I believe it's	4 six epi studies to your materials reviewed;
4 ATTORNEY EPSTEIN: I believe it's 5 in the chat. 10:34	4 six epi studies to your materials reviewed; 5 four of them were co-authored by plaintiff's 10:37
4 ATTORNEY EPSTEIN: I believe it's 5 in the chat. 10:34 6 BY ATTORNEY DAVIDSON: 7 Q. One of the papers you added was 8 Gabriel 2019.	<ul> <li>4 six epi studies to your materials reviewed;</li> <li>5 four of them were co-authored by plaintiff's 10:37</li> <li>6 experts.</li> <li>7 It's your testimony that you</li> <li>8 identified these papers on your own and</li> </ul>
4 ATTORNEY EPSTEIN: I believe it's 5 in the chat. 10:34 6 BY ATTORNEY DAVIDSON: 7 Q. One of the papers you added was 8 Gabriel 2019. 9 ATTORNEY DAVIDSON: Noah, do you	<ul> <li>4 six epi studies to your materials reviewed;</li> <li>5 four of them were co-authored by plaintiff's 10:37</li> <li>6 experts.</li> <li>7 It's your testimony that you</li> <li>8 identified these papers on your own and</li> <li>9 added them of your own selection; is that</li> </ul>
4 ATTORNEY EPSTEIN: I believe it's 5 in the chat. 10:34 6 BY ATTORNEY DAVIDSON: 7 Q. One of the papers you added was 8 Gabriel 2019. 9 ATTORNEY DAVIDSON: Noah, do you 10 want to go to that paper? 10:35	4 six epi studies to your materials reviewed; 5 four of them were co-authored by plaintiff's 10:37 6 experts. 7 It's your testimony that you 8 identified these papers on your own and 9 added them of your own selection; is that 10 correct? 10:37
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Page 78  1 that you added six epidemiologic studies;	Page 80  1 Q. I'm not asking you to look at your
2 four of them were authored by or co-authored	2 paper right now. You can look at it later.
3 by plaintiff's experts.	3 I'm asking you to look at this entry on your
4 Is it your testimony that you	4 materials considered list and tell me, it
5 decided to add those four on your own and 10:38	5 was just this week on Saturday, why you 10:40
6 that you found them through your own	6 added this on Saturday to your materials
7 research?	7 considered list.
8 ATTORNEY O'DELL: Object to the	8 ATTORNEY O'DELL: Object to the
9 form.	9 form. Asked and answered.
10 THE WITNESS: I'm not sure if I 10:39	10 THE WITNESS: So there was 10:40
11 found those or if they were provided.	11 yeah. It was added because it was
12 That's why I was asking my question	12 either something we discussed or it
13 to the counsel was more on the	13 was something that was considered.
14 cross-references between this and my	14 BY ATTORNEY DAVIDSON:
15 literature cited. If it's on my 10:39	15 Q. Did you make the decision to add 10:41
literature cited list, I may answer	16 that to your materials considered list on
17 the question differently.	17 Saturday?
18 BY ATTORNEY DAVIDSON:	18 A. I don't recall if I made the
19 Q. Right. This is your deposition; so	19 decision to add it or not.
20 obviously you can't talk to Ms. O'Dell in 10:39	Q. Do you know when you first read it? 10:41
21 the middle of it.	A. I'd have to look at the paper to
22 A. I understand.	22 tell you for sure.
23 ATTORNEY O'DELL: Object to the	Q. So you're not sure when you first
form. I think he was asking what the exhibit was that was being referred 10:39	24 read O'Brien and Wentzensen's 2020 paper in 25 JAMA entitled: Association of Powder Use in 10:41
_	
Page 79  1 to, and I can certainly do that.	Page 81  1 the Genital Area With Risk of Ovarian
2 BY ATTORNEY DAVIDSON:	2 Cancer; correct?
3 Q. Dr. Levy?	3 ATTORNEY O'DELL: Objection to the
4 A. Yes.	4 form. Misstates his testimony. He's
5 Q. If we can turn to 10:39	5 asked to see the reference. 10:41
6 ATTORNEY DAVIDSON: Noah, can we	6 ATTORNEY DAVIDSON: I understand.
7 turn to O'Brien 2020.	7 ATTORNEY O'DELL: Let me finish.
8 ATTORNEY EPSTEIN: Do you want me	8 He's asked to see the reference. Are
•	
9 to put that in chat and then share my	9 you refusing to provide it to him so
9 to put that in chat and then share my 10 screen? 10:39	9 you refusing to provide it to him so 10 he can see it? 10:41
1	5 6 1
10 screen? 10:39	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy
10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry.	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm
10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON:	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you
10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON: 15 Q. Dr. Levy? 10:40	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you 15 refusing to provide 10:42
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10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON: 15 Q. Dr. Levy? 10:40 16 A. Yes. 17 Q. We received a materials considered	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you 15 refusing to provide 10:42 16 ATTORNEY DAVIDSON: I'm not 17 answering your questions, Leigh. I'm
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10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON: 15 Q. Dr. Levy? 10:40 16 A. Yes. 17 Q. We received a materials considered 18 list with your report November, 2023, and 19 this paper, O'Brien 2020, was not on there.	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you 15 refusing to provide 10:42 16 ATTORNEY DAVIDSON: I'm not 17 answering your questions, Leigh. I'm 18 not being deposed. 19 ATTORNEY O'DELL: Dr. Levy, if you
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10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON: 15 Q. Dr. Levy? 10:40 16 A. Yes. 17 Q. We received a materials considered 18 list with your report November, 2023, and 19 this paper, O'Brien 2020, was not on there. 20 It was first added to your materials 10:40 21 considered list on Saturday. 22 Do you know why it was added to	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you 15 refusing to provide 10:42 16 ATTORNEY DAVIDSON: I'm not 17 answering your questions, Leigh. I'm 18 not being deposed. 19 ATTORNEY O'DELL: Dr. Levy, if you 20 need to see the reference, then you 10:42 21 may see it, and you just need to ask. 22 ATTORNEY DAVIDSON: Leigh, these
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10 screen? 10:39 11 ATTORNEY DAVIDSON: No, no. I 12 mean on this list. 13 ATTORNEY EPSTEIN: Okay. Sorry. 14 BY ATTORNEY DAVIDSON: 15 Q. Dr. Levy? 10:40 16 A. Yes. 17 Q. We received a materials considered 18 list with your report November, 2023, and 19 this paper, O'Brien 2020, was not on there. 20 It was first added to your materials 10:40 21 considered list on Saturday. 22 Do you know why it was added to	10 he can see it? 10:41 11 BY ATTORNEY DAVIDSON: 12 Q. Dr. Levy 13 ATTORNEY O'DELL: No, no, no. I'm 14 asking you a question. Are you 15 refusing to provide 10:42 16 ATTORNEY DAVIDSON: I'm not 17 answering your questions, Leigh. I'm 18 not being deposed. 19 ATTORNEY O'DELL: Dr. Levy, if you 20 need to see the reference, then you 10:42 21 may see it, and you just need to ask. 22 ATTORNEY DAVIDSON: Leigh, these

	Page 82		
1	BY ATTORNEY DAVIDSON:	1	
2	Q. Dr. Levy, do you recall what my	2	(
3	question was?	3	4
4	Dr. Levy, if you're looking at	4	(
5	something that I didn't ask you to look at, 10:42	5	
6	that is a violation of ethics?	6	wh
7	ATTORNEY O'DELL: No, it's not.	7	(
8	He's looking at his report.	8	
9	ATTORNEY DAVIDSON: Certainly it	9	the
10	is. 10:42	10	ans
11	ATTORNEY O'DELL: He's looking at	11	(
12	his report, Jessica. He's entitled to	12	by
13	do that	13	Ta
14	ATTORNEY DAVIDSON: He's not	14	
15	entitled to look at something without 10:42	15	
16	telling me. That's not appropriate in	16	
17	a deposition.	17	1
18	ATTORNEY O'DELL: You can be here	18	ВЪ
19	in the room, and you could see him	19	(
20	reviewing his own report, which is 10:42	20	
21	perfectly appropriate. So don't	21	,
22	suggest anything otherwise because you	22	BY
23	know that's not correct.	23	(
24	BY ATTORNEY DAVIDSON:	l .	a r
25	Q. Dr. Levy, do you recall when you 10:42	225	
	Page 83		
1	read O'Brien 2020 or not? Without looking	1	
2	at anything.	2	
3	A. No, I can't give you a date of when	3	
4	I read that without looking at it.	4	
5	Q. And do you recall, without looking 10:43	5	

6 at that paper, generally what that paper is?
7 A. It's part of the epidemiology
8 literature. If I remember right, it was
9 more along the lines of general use of talc,
10 and I believe this was with a mild positive 10:43

11 association, but I may be thinking of the
12 other O'Brien paper that was a summary of
13 the epidemiology literature. Again, I can
14 take a moment and review the paper to give

Q. Do you know what sort of

18 A. To give you a correct answer, I'm 19 going to look at the paper, if you'll give

Q. I don't want to look at the paper right now. Thank you. Let's move on.

24 by Chang that reports on talc use and

Are you familiar with a 2024 paper

17 epidemiological study it was?

15 you a better answer.

20 me a moment.

25 ovarian cancer?

82			Page 84
	1	A. 2024. What's the first author?	
	2	Q. Chang.	
	3	A. Chang.	
	4	Q. What are you looking at now?	
:42	5	A. The exhibit, the materials list, 10:44	
	6	what you've provided in the chat.	
	7	Q. It's not on there.	
	8	A. Okay. Again, if you could show me	
	9	the complete reference, I can give you an	
		answer. 10:44	
	11	Q. Do you recall reading a 2024 paper	
		by an author named Chang about Douching,	
		Talc Use and Ovarian Cancer?	
	14	ATTORNEY O'DELL: Objection.	
42		Asked and answered. 10:44	
72	16		
	17	•	
		the paper or the complete reference. BY ATTORNEY DAVIDSON:	
,	19		
42	20	<b>e</b>	10:44
+4		3	10:44
	21		
		BY ATTORNEY DAVIDSON:	
	23	Q. Do you recall it without looking at	
		a reference?	10.45
):42	225	ATTORNEY O'DELL: He's asked to	10:45
83			Page 85
	1	see the reference.	G 1
	2	ATTORNEY DAVIDSON: Oh, my	
	3		lreds
	4		
	5		:45
	6	whether he's seen it or not. If you	
	7	want to ask him a question, provide	
	8		
	9	BY ATTORNEY DAVIDSON:	
	10	Q. Dr. Levy, do you recall reading a	10:45
	11	2024 paper by Chang addressing potential	
	12	association between talc use and douching	5
	13	and talc use and ovarian cancer?	
	14	ATTORNEY O'DELL: Objection to	)
	15	form. Asked and answered.	0:45
	16	THE WITNESS: I read a variety of	
	17	literature and saw a reference to a	
	18	variety of literature on that precise	
	19	•	
	20		0:45
	21	need to see the paper to give you an	
	22	answer.	
	23		ou.
	24		, ,
	25	witness. 10:45	
		100	

22 (Pages 82 - 85)

10:43

10:43

10:44

Page 86	1	Page 88 Those were two pieces of literature
		that was reviewed very recently,
		specifically in the last couple of days.
		Obviously they're not contained or
		referenced in the report, certainly given 10:48
	_	the timeline I just explained.
		Q. Are you aware that four of the five
	_	mechanistic studies added to your materials
·		· · · · · · · · · · · · · · · · · · ·
<u> </u>		
		ATTORNEY O'DELL: Object to the
		form.
•		THE WITNESS: I can't specifically
		say on the numbers, but yes, I am 10:49
•		aware of how some of that research was
		supported.
		BY ATTORNEY DAVIDSON:
· · · · · · · · · · · · · · · · · · ·		Q. Which research was that?
		A. From Dr. Saed. 10:49
		Q. Are you aware that the Mandarino
		paper is co-authored by plaintiff's experts
•		in addition to the Saed paper?
		A. That sounds familiar, yes.
couple of references that were from the last 10:47	25	Q. Are you aware that the Brieger 10:49
Page 87		Page 89
•		paper is co-authored by plaintiff's experts?
	2	ATTORNEY O'DELL: Object to the
	3	form.
referenced list?	4	THE WITNESS: Which Brieger paper?
A. Again, it would be some of the 10:47	5	That one doesn't sound as familiar, 10:49
	6	but I want to make sure I give you
you've asked for. You can see it there, or	7	the the Brieger 2022? Is that the
I'm happy to show you on the screen.	8	paper you're referring to?
Q. I'd like to know what literature	9	ATTORNEY DAVIDSON: Uh-huh.
you've reviewed in the last few days that's 10:47	10	THE WITNESS: I don't recall 10:50
not on your materials referenced list.	11	discussing that as being supported
A. There were two. Let me make	12	research from the plaintiff's experts,
sure let me actually just make sure that	13	but if that's it wouldn't it
it's not on the list. It didn't look	14	wouldn't be surprising, I suppose, if
	1.5	it was. 10:50
familiar when I looked at it. Yeah, so 10:47	15	
		BY ATTORNEY DAVIDSON:
familiar when I looked at it. Yeah, so 10:47		BY ATTORNEY DAVIDSON: Q. If we could turn to the Rs in this
familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of Clinical Pathology 2019 which came up as, I	16 17	
familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of	16 17	Q. If we could turn to the Rs in this
familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of Clinical Pathology 2019 which came up as, I believe, citing one of the studies that one of the studies from Dr. Godleski. And	16 17 18	<ul><li>Q. If we could turn to the Rs in this reliance list.</li><li>A. Okay.</li></ul>
familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of Clinical Pathology 2019 which came up as, I believe, citing one of the studies that one of the studies from Dr. Godleski. And then Ogunsina and Sandler. This was 10:48	16 17 18 19 20	<ul><li>Q. If we could turn to the Rs in this reliance list.</li><li>A. Okay.</li></ul>
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familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of Clinical Pathology 2019 which came up as, I believe, citing one of the studies that one of the studies from Dr. Godleski. And then Ogunsina and Sandler. This was 10:48 actually from Dr. O'Brien's lab. This was a 2023 paper. On the association of genital	16 17 18 19 20 21 22	Q. If we could turn to the Rs in this reliance list. A. Okay. Q. Go up to Rothman. Go down to 10:50 Rothman. Do you see this entry of Rothman,
familiar when I looked at it. Yeah, so 10:47 there was a McDonald American Journal of Clinical Pathology 2019 which came up as, I believe, citing one of the studies that one of the studies from Dr. Godleski. And then Ogunsina and Sandler. This was 10:48 actually from Dr. O'Brien's lab. This was a	16 17 18 19 20 21 22 23	Q. If we could turn to the Rs in this reliance list. A. Okay. Q. Go up to Rothman. Go down to 10:50 Rothman.
	BY ATTORNEY DAVIDSON:  Q. Dr. Levy, when was the last time you did a search of new literature? Have you done any search of literature since 2024 that would have picked up 2024 literature? 10:46  A. In preparation for this, as I was reading some of the material referenced as well as some of the other expert reports, I did review my process was to review two things. One is literature cited in those 10:46 reports and then asking a doing a more current search to verify if there was any materials that cited those papers. And so in that sense, I had seen some additional literature that may have been dated 2023 or 10:46 2024. I have not I did not repeat the same process I used during the generation of the report in a systematic way to evaluate any new literature that may have come out since the report draft. 10:46  Q. If you recently identified a report and read it, it would be in your materials considered list; correct?  A. The only exception would be a couple of references that were from the last 10:47  Page 87 day or two.  Q. What did you review in the last day or two that's not in your materials referenced list?  A. Again, it would be some of the 10:47 literature cited. It's in my notes, which you've asked for. You can see it there, or I'm happy to show you on the screen.  Q. I'd like to know what literature you've reviewed in the last few days that's 10:47 not on your materials referenced list.	BY ATTORNEY DAVIDSON: Q. Dr. Levy, when was the last time you did a search of new literature? Have you done any search of literature since 2024 that would have picked up 2024 literature? 10:46 A. In preparation for this, as I was reading some of the material referenced as well as some of the other expert reports, I did review my process was to review two things. One is literature cited in those 10:46 reports and then asking a doing a more current search to verify if there was any materials that cited those papers. And so in that sense, I had seen some additional literature that may have been dated 2023 or 10:46 2024. I have not I did not repeat the same process I used during the generation of the report in a systematic way to evaluate any new literature that may have come out since the report draft. 10:46 Q. If you recently identified a report and read it, it would be in your materials considered list; correct? A. The only exception would be a couple of references that were from the last 10:47  Page 87  day or two. Q. What did you review in the last day or two that's not in your materials referenced list? A. Again, it would be some of the 10:47 literature cited. It's in my notes, which you've asked for. You can see it there, or I'm happy to show you on the screen. Q. I'd like to know what literature you've reviewed in the last few days that's 10:47 not on your materials referenced list. A. There were two. Let me make sure let me actually just make sure that

Page 90	Page 92
1 Q. Did this come up in your PubMed	1 says. I'm asking you I'm trying to
2 research?	2 understand the nature of your scientific
3 A. I don't recall that coming up in	3 exploration and what got you to this paper.
4 the PubMed search.	4 Reading the paper is not going to tell you
5 Q. How did you find it? 10:51	5 what made you read the paper in the first 10:53
6 A. I don't know that I found it	6 place.
7 specifically. Again, this being the	7 I'm trying to understand: Did
8 materials and data considered, it would have	8 counsel give you this paper or how you got
9 also contained other materials that was	9 this paper in the first place? Because, in
10 discussed outside of the report. 10:51	10 my opinion, it wouldn't have come up by 10:53
11 Q. I don't understand. Your testimony	11 searching in PubMed "talc and ovarian
12 earlier was that you identified the	12 cancer."
13 scientific literature cited in this report.	
14 Is this not scientific literature?	13 ATTORNEY O'DELL: Objection to 14 form.
15 ATTORNEY O'DELL: Objection to the 10:51	
· ·	
16 form.  17 THE WITNESS: That's not sited in	16 the paper, you may look at the paper,
17 THE WITNESS: That's not cited in	17 the reference or the actual document,
18 the report.	18 to answer counsel's questions
19 BY ATTORNEY DAVIDSON:	19 accurately.
20 Q. I believe you also testified that 10:52	20 BY ATTORNEY DAVIDSON: 10:53
21 you identified the scientific literature	Q. We are not pulling up the paper at
22 cited in your materials reviewed list?	22 this point, Dr. Levy.
23 ATTORNEY O'DELL: Objection to	I am asking you: How did you
form. Misstates his testimony.	24 obtain this reference? And if you don't
25 THE WITNESS: Yeah, I provided a 10:52	25 know the answer, you can just tell me you 10:54
Page 91 1 different answer.	Page 93
2 BY ATTORNEY DAVIDSON:	2 ATTORNEY O'DELL: That's a
3 Q. Who identified this for you?	3 different question. And if he needs
4 A. The Rothman paper?	4 to
5 Q. Uh-huh. 10:52	5 BY ATTORNEY DAVIDSON: 10:54
6 A. I can't say for sure who identified	6 Q. Doctor
7 it.	7 ATTORNEY O'DELL: Excuse me. This
8 Q. You have this paper in your	8 is not a memory test of hundreds of
9 materials reviewed and you don't know why	9 references. These are materials that
10 you looked at it? 10:52	10 are part of his considered list. 10:54
11 ATTORNEY O'DELL: Objection to	Dr. Levy, if you need to see them,
12 form. That's a different question.	12 any one of them, you are entitled to
13 THE WITNESS: I'd like to look at	do that, and we can put it in front of
14 it again, and I can give you an	14 you. You just let me know what would
15 answer. 10:52	15 assist you in answering counsel's 10:54
16 BY ATTORNEY DAVIDSON:	16 questions accurately.
17 Q. You need to look at the paper to	17 BY ATTORNEY DAVIDSON:
18 tell me why you please stop looking at	18 Q. Dr. Levy, I am asking you: Do you
19 Leigh for answers to your questions.	19 recall, sitting here today, how you came to
	20 be aware of this paper? 10:54
21 characterization. That is inaccurate.	20 be aware of this paper? 10.34 21 A. I don't recall.
22 BY ATTORNEY DAVIDSON:	22 Q. Thank you.
22 DI ATTORNET DAVIDSON.	22 Q. Hank you.
23 O Vou're telling me that you need to	23 Do you know whather it was brought
23 Q. You're telling me that you need to	23 Do you know whether it was brought
<ul> <li>Q. You're telling me that you need to</li> <li>look at the Rothman paper to tell me why you</li> <li>looked at it? I'm not asking you what it</li> <li>10:53</li> </ul>	<ul> <li>Do you know whether it was brought</li> <li>to your attention by plaintiff's counsel?</li> <li>A. As I said, I'd have to look at it 10:54</li> </ul>

Page 94	Page 96
1 to give you an answer. To be clear, talc	1 considered.
2 and ovarian cancer were certainly not the	2 Q. I'm sorry?
3 only search terms that I used in this	3 A. It would have been one of the
4 review, both during the report and post.	4 plaintiff's attorneys in terms of the
5 Q. What other things did you search? 10:55	5 Q. I see. 10:57
6 A. A wide reaching methodology, as I	6 A. Yeah.
7 was explaining. Some of it was looking at	7 Q. When did you read Dr. Chodosh's
8 cited literature from other material; so	8 deposition?
9 there wasn't a specific search term. It was	9 A. I can't recall the first time I saw
10 based on the cited material. Some of it was 10:55	10 it. I honestly don't remember when he was 10:57
11 based on other terms observing in the	11 deposed. What was the date of the
12 papers, including some of the epidemiology	12 deposition?
13 research, some of the mechanistic research.	13 Q. 2016.
14 I was also exploring what was available from	14 A. So probably then prior again, I
15 a at least opinions on causation or 10:55	15 don't recall if I had access to it prior to 10:57
16 progression or initiation. So there's a	16 the last deposition.
17 wide variety of terms that were used in	17 Q. Was it on your reliance list in
18 various combinations.	18 2019? That's what I'm asking.
19 Q. So is it now your testimony that	19 A. Then I don't recall if I read it
20 you may have identified this document on 10:55	20 then. Between that time or between the last 10:57
21 your own?	21 deposition and now.
22 ATTORNEY O'DELL: Objection to the	_
form. Misstates his testimony.	22 Q. Have you read it in the last six 23 months?
24 THE WITNESS: I provided my	24 A. I have at least looked at it in the
25 answer stands as I don't recall. 10:55	25 last six months. 10:58
Page 95 1 BY ATTORNEY DAVIDSON:	Page 97  1 Q. Do you know whether there is a
2 Q. You don't recall what?	2 defense expert report that responds to
3 A. I don't recall exactly how this	3 Dr. Longo's 2019 expert report?
4 paper was found.	4 A. That responds to? I believe so.
5 Q. Do you know whether you found it or 10:56	5 Q. But you haven't read it; correct? 10:58
6 someone else found it?	6 A. So I don't recall seeing any
7 ATTORNEY O'DELL: Objection.	7 defense expert reports that were to refute
8 Asked and answered.	8 Dr. Longo's analysis of the contents of the
	9 talc.
10 ATTORNEY DAVIDSON: Noah, can you 10:56	10 Q. And you never asked to see that; 10:58 11 correct?
11 go up to A. AM.	
12 BY ATTORNEY DAVIDSON:	12 ATTORNEY O'DELL: Object to the
13 Q. Let's look at this paper, Amrhein,	13 form.
14 Greenland, and McShane: Retire Statistical	14 THE WITNESS: No, I didn't I
15 Significance. Springer Nature Limited. 10:56	haven't specifically asked for any 10:58
Do you see that entry, Doctor?	16 defense expert reports.
17 A. I do.	17 BY ATTORNEY DAVIDSON:
18 Q. Did you identify that on your own?	18 Q. At your last deposition, you may
19 A. I don't recall. I am aware of, or	19 recall that you were questioned about a
20 had been familiar with, this paper in the 10:56	20 number of lines in your expert report that 10:59
21 past. I don't recall if I brought it in in	21 were quite similar, indeed identical, to
22 this particular case.	22 various websites.
23 O If you didn't being it in subs	23 Do you recall that?
23 Q. If you didn't bring it in, who	1
<ul> <li>Q. If you didn't bring it in, who</li> <li>would have brought it in?</li> <li>A. As part of the data or materials 10:56</li> </ul>	24 A. I do. 25 ATTORNEY O'DELL: Object to the 10:59

Page 98	Page 100
1 form.	1 Clinic, Wikipedia, and a few others; 2 correct?
2 BY ATTORNEY DAVIDSON:	
3 Q. And in your current report, your	9
4 amended report, you changed a few words to	1 1 ,
5 address the plagiarism; correct? 10:59	<ul> <li>5 testimony in his last deposition.</li> <li>6 THE WITNESS: I didn't make</li> </ul>
6 ATTORNEY O'DELL: Object to the	
7 form. Misstates his prior testimony 8 and misstates the report.	7 specific edits to address specifically 8 the things you were just describing.
8 and misstates the report. 9 THE WITNESS: Similar to this	9 BY ATTORNEY DAVIDSON:
	10 Q. Well, let's take a look at a 11:01
10 report, I was asked to provide a 10:59 11 review of the available information on	11 redline of the report then, Exhibit 3.
	12 Let's go to the page 8 of that redline.
12 a variety of areas related to talc and 13 ovarian cancer and the mechanistic	13 ATTORNEY DAVIDSON: Noah, can you
	please put it up on the screen. Let's
	15 mark as Exhibit 3 11:01
<u> </u>	16 ATTORNEY EPSTEIN: You're on
16 context of writing that report, that 17 information came from a variety of	17 Exhibit 4.
<ul><li>information came from a variety of</li><li>sources; so it's whether it's</li></ul>	17 Exhibit 4. 18 ATTORNEY DAVIDSON: Noah, I'm
	going to mark them as separate exhibits by the page. I think it's 11:02
, 1	21 Exhibit 4. I'm sorry. Is that what
<ul> <li>about the accuracy of the fact that</li> <li>was stated or more just a debate about</li> </ul>	22 somebody was trying to say?
23 where that fact came from?	23 (Exhibit Number 4 was marked for
24 BY ATTORNEY DAVIDSON:	24 identification.)
25 Q. My question was: You changed some 11:00	25 ///
Page 99	Page 101
1 wording in your current report to address	1 BY ATTORNEY DAVIDSON:
2 the problem in your prior report that	<ul><li>Q. DNA repair genes. Let's look at</li><li>3 that sentence: DNA repair genes detect</li></ul>
3 various sentences were plagiarized from	4 errors in cellular DNA and correct them.
4 websites; correct?	
5 ATTORNEY O'DELL: Objection to 11:00 6 form. Misstates his testimony from	5 Why did you change "DNA repair 11:02 6 genes look for" and change it to "detect"?
· ·	7 A. Because detect is a more accurate
7 his last deposition and misstates the 8 report itself.	8 description. As you see I'm sure as you
9 ATTORNEY DAVIDSON: I didn't	9 have the compare, you see that there was a
	10 variety of grammatical and stylistic changes 11:02
	<ul><li>11 done through the report.</li><li>12 Q. So you didn't make that change</li></ul>
12 matter. 13 ATTORNEY DAVIDSON: How could I	- •
14 misstate testimony if I didn't	<ul><li>13 because this was copied straight from the</li><li>14 Mayo Clinic and you wanted to change the</li></ul>
15 reference it? 11:00	15 words of the Mayo Clinic website? It's just 11:03
16 ATTORNEY O'DELL: It was a part of	16 coincidence?
17 the prior context of the question, as	17 ATTORNEY O'DELL: Object to the
17 the prior context of the question, as 18 you know.	18 form. It misstates his testimony.
19 THE WITNESS: I went through as	19 THE WITNESS: Again, I made
20 you can see, I revised substantial 11:00	20 wide-ranging changes to the report for 11:03
20 you can see, Hevised substantial 11:00 21 portions of the report.	20 wide-ranging changes to the report for 11:05 21 stylistic and grammatical and flow and
22 BY ATTORNEY DAVIDSON:	21 styristic and grammatical and flow and 22 just overall improving the content and
23 Q. One of the things you did was	23 readability of the report.
24 change some of the sentences that were	24 BY ATTORNEY DAVIDSON:
25 plagiarized from various websites, like Mayo 11:01	
25 pragranzeu from various websites, fike iviayo 11:01	25 Q. I just want to make sure I 11:03

	Page 102		Page 104
1	understand your testimony.	1	et cetera, I'm sure that there was
$\frac{1}{2}$	Your testimony is that the reason	2	content sentences or even contexts
	you changed three words in this sentence had	3	that were picked up directly or
	nothing to do with the fact that this	4	
1	sentence was identical to a sentence on the 11:03	5	very simple background facts in the 11:05
	Mayo Clinic website?	6	
7	ATTORNEY O'DELL: Objection.	7	the second report, revising it for, as
8	Asked and answered.	8	I said, grammatical or stylistic or,
9	THE WITNESS: That's correct, yes.	9	even just in this case, making it a
	BY ATTORNEY DAVIDSON: 11:03		· ·
11	Q. Do you believe that changing three	11	changes were made.
	words in a sentence would address	12	I certainly didn't take the time
13		13	to review, nor was I given a compare
14	ATTORNEY O'DELL: Objection.	14	•
15	Misstates his prior report and his 11:03	15	sentences may or may not have been 11:06
16	prior testimony.	16	, ,
17	You may answer.	17	in and specifically correct them.
18	THE WITNESS: This is a general	18	BY ATTORNEY DAVIDSON:
19	background sentence. There are only	19	Q. Actually at your deposition, which
20	so many ways to say: DNA repair genes 11:04	20	you testified that you have reviewed, my 11:06
21	correct error in cellular DNA.	21	
22	BY ATTORNEY DAVIDSON:	22	sentences, didn't she?
23	Q. Doctor, if detect is better	23	ATTORNEY O'DELL: Objection.
24	language than look for, why didn't you say	24	Misstates his prior report and
25	it the first time? 11:04	25	misstates his prior testimony. 11:06
	Page 103		Page 105
1	A. I don't have an answer as to why I	1	THE WITNESS: There was discussion
2	chose any given word.	2	of this same question for the same
3	Q. How come you and the Mayo Clinic	3	background information. Again, I had
4	ATTORNEY O'DELL: He's not	4	asked briefly at that time and would
5	finished, Jessica. 11:04	5	ask again or I believe I'd asked 11:06
6	BY ATTORNEY DAVIDSON:	6	briefly at that time, if there was a
7	Q. How come you and the Mayo Clinic	7	question about the accuracy of the
8	both coincidentally happened to choose the	8	information, given that I was asked to
	less accurate or correct word "look for" the	9	perform a review of the material, not
1	first time, but then the second time around, 11:04	10	synthesize novel conclusions or novel 11:06
11		11	opinions that would fall under that
12		12	same the accusation of plagiarism.
13	3	13	
14		14	
15		15	describing basic concepts for 11:07
16		16	introductory materials.
17	•		BY ATTORNEY DAVIDSON:
18		18	Q. Dr. Levy, if a student submits
19	•		sentences that are taken full clock from the
20	9 1		Mayo Clinic website and Wikipedia, the 11:07
21			student is disciplined regardless of whether
21 22			they're accurate because they are
23	1 1		· · · · · · · · · · · · · · · · · · ·
1	•		plagiarized; correct?
24	<u>o</u>	24	ATTORNEY O'DELL: Object to the
25	variety of literature, websites, 11:05	25	form. Incomplete hypothetical, 11:07

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1 improper characterization of his	1 the port as I was reading and writing
2 testimony.	2 and reading and writing. Same thing
3 You may answer.	3 in the revisions. It wasn't
4 THE WITNESS: Depends what the	4 necessarily the same it was the
5 student was asked to do. 11:07	5 same process. Reading new, changing 11:09
6 BY ATTORNEY DAVIDSON:	6 terminology, improving flow, five more 7 years of writing experience and just
7 Q. Doctor, why didn't you add proper	7 years of writing experience and just 8 changes in perspective, better
8 citations to the Mayo Clinic and Wikipedia	
9 in your revised paper?	,
10 ATTORNEY O'DELL: Objection to the 11:07	Word to improve flow, et cetera. So 11:09 11 all those things come to bear.
11 form. 12 THE WITNESS: Again, I generally	12 BY ATTORNEY DAVIDSON:
	13 Q. Are you aware that the proper
_	14 procedure in the scientific community and
<ul> <li>that are generally acceptable or basic</li> <li>background information throughout the</li> <li>11:07</li> </ul>	15 scientific literature, even for basic 11:09
	16 concepts, when you take a sentence from a
16 report. 17 BY ATTORNEY DAVIDSON:	17 website is to attribute that sentence to the
18 Q. So sitting here today, it is your	18 website?
19 sworn testimony that you and the Mayo Clinic	19 ATTORNEY O'DELL: Objection to the
20 happened to come up with the words "look 11:08	20 form. 11:09
21 for," "a cell's," and make corrections the	21 THE WITNESS: It certainly depends
22 first time you wrote your report	22 on the context.
23 independently, and that this time you wrote	23 BY ATTORNEY DAVIDSON:
24 your report	24 Q. What is your basis for saying it
25 ATTORNEY DAVIDSON: Leigh, please 11:08	25 depends on the context? 11:10
Page 107	Page 109
1 stop whispering.	1 A. Because in this specific report,
2 ATTORNEY O'DELL: (Inaudible.)	2 the request was to perform a review and
3 BY ATTORNEY DAVIDSON:	3 provide that summary. The instructions
4 Q. And at this time you wrote your	4 didn't also include to be sure that every
5 report, you changed it to "detect," 11:08	5 fact and every statement was cited 11:10
6 "cellular" and "correct," independently of	6 specifically and comprehensively of wherever
7 the plagiarism allegations? That's your	7 that may have come from, whether it be
8 sworn testimony sitting here today?	8 generally accepted or not.
9 ATTORNEY O'DELL: First, I did not	9 So this report was written this
10 say a word; so don't mischaracterize 11:08	10 report was meant to convey information 11:10
11 what's happening on the record.	11 representing the state of knowledge at that
12 Second, I object to the question. It	12 time. And as is the updated reports do much
13 misstates his prior testimony, his	13 the same thing.
14 prior report.	14 Q. Is it your understanding that the
15 If you understand the question, 11:08	15 standards for academic honesty are different 11:10
16 Dr. Levy, you may answer.	16 in an expert report in court than they are
17 THE WITNESS: No. I understand	17 for scientific publication?
18 the question. I just want to clarify	18 ATTORNEY O'DELL: Object to the
that through the review and reading of	19 form. Misstates his testimony.
20 a wide variety of sources, which I'm 11:08	
,	
21 sure included the Mayo Clinic,	21 question again or I can look at the
<ul><li>sure included the Mayo Clinic,</li><li>Wikipedia, and other sources, it's</li></ul>	21 question again or I can look at the 22 ATTORNEY DAVIDSON: Court
<ul> <li>sure included the Mayo Clinic,</li> <li>Wikipedia, and other sources, it's</li> <li>certainly possible and plausible that</li> </ul>	21 question again or I can look at the 22 ATTORNEY DAVIDSON: Court 23 Reporter, can you repeat it?
<ul><li>sure included the Mayo Clinic,</li><li>Wikipedia, and other sources, it's</li></ul>	21 question again or I can look at the 22 ATTORNEY DAVIDSON: Court 23 Reporter, can you repeat it? 24 THE WITNESS: I see it on the

P. 110	D 112
Page 110 1 BY ATTORNEY DAVIDSON:	
	1 the Mayo Clinic?
2 Q. You have a screen in front of you	2 ATTORNEY O'DELL: Object to the 3 form. Asked and answered.
3 with the questions?	
4 ATTORNEY O'DELL: He has realtime.	4 THE WITNESS: As I explained,
5 THE WITNESS: I'm not aware of 11:11	5 generally acceptable facts or 11:13
6 what the standards for academic	6 materials that are not in question,
7 honesty are in expert reports and how	7 that are not being developed or
8 they may be different than scientific	8 synthesized as novel material for that
9 literature.	9 scientific paper, then I would not
10 BY ATTORNEY DAVIDSON: 11:11	
11 Q. Do you have a view that they are	11 every specific sentence and make sure
12 different or the same?	that there is not a copy of a sentence
13 A. Since I don't know what the	that's in the same wording or similar
14 standards are for expert reports, I don't	wording on the internet, particularly
15 have an answer. 11:11	15 sources like Wikipedia which pull 11:13
16 Q. If you were writing a paper for a	16 from anyone can add or take away
17 scientific journal and it had a sentence	17 material. From any source.
18 taken from the Mayo Clinic website, would	18 BY ATTORNEY DAVIDSON:
19 you cite the Mayo Clinic website?	19 Q. Is the fact that anyone can add or
20 ATTORNEY O'DELL: Object to the 11:12	20 take away material from Wikipedia makes it 11:13
21 form.	21 all the more dangerous to plagiarize from
22 THE WITNESS: It would depend on	22 there, doesn't it?
23 the sentence. Again, generally	23 ATTORNEY O'DELL: Object to the
24 acceptable background fact that's been	24 form. Misstates his prior report,
25 known in the literature, then perhaps 11:12	25 misstates his testimony from his 11:14
Page 111	Page 113
1 not. I would say the more informal	1 previous deposition, and misstates
2 language that may generally be	2 what he just said.
3 involved in a website similar to this	3 THE WITNESS: Correct. It could
4 first draft, certainly that would be	4 also be that somebody puts in
5 unlikely that I would include that in 11:12	5 Wikipedia content that they 11:14
6 a scientific paper.	6 plagiarized from somewhere else, and
7 BY ATTORNEY DAVIDSON:	7 then we get into a circular argument
8 Q. It's unlikely that you would copy	8 of who said it first.
9 the Mayo Clinic, or it's unlikely that if	9 BY ATTORNEY DAVIDSON:
10 you copy the Mayo Clinic, you wouldn't cite 11:12	10 Q. Is it your testimony that the 11:14
11 it?	11 language you copied from Wikipedia was
12 ATTORNEY O'DELL: Object to the	12 actually language you put into Wikipedia?
13 form. Misstates his testimony.	13 ATTORNEY O'DELL: Objection to the
14 THE WITNESS: It's unlikely that I	14 form. Misstates his prior report, his
•	1 1 ,
	prior testimony, and what he just said 11:14
16 informal tone in a scientific paper.	<ul><li>16 a moment ago.</li><li>17 THE WITNESS: I guess do you</li></ul>
17 BY ATTORNEY DAVIDSON:	
18 Q. If you were to use the language of	18 want should we go to the specific
19 the Mayo Clinic in the scientific paper, my	19 sentences from Wikipedia? Then we can
20 question is: Would you cite it? 11:12	20 discuss that. 11:14
A. Again, I said it depends on how the	21 BY ATTORNEY DAVIDSON:
22 material the specific material.	Q. Is it your testimony that any of
Q. Is there any circumstance in which	23 the language in your expert report was
24 you would use direct language from the Mayo	24 language that you had placed in Wikipedia?
25 Clinic in a scientific paper and not cite 11:13	25 A. No, I'm not making that testimony. 11:14

Page 11	Page 116  ATTORNEY O'DELL: He just answered
1 Q. Okay. Have you had the opportunity	_
2 since your last deposition to figure out why	3
3 you and Dr. Zelikoff had identical language	
4 in your original reports?	4 Q. You don't recall being questioned
5 ATTORNEY O'DELL: Let me just 11:14	5 about similarities in your report and 11:16
6 object to the form. Jessica, you're	6 Dr. Zelikoff's report?
7 reviewing his prior testimony, and as	7 A. I recall generally. I don't recall
8 you know, this deposition is for new	8 the specific language that was asked.
9 material. If you want to ask has he	9 Q. I see.
done anything since, I think that's a 11:15	10 Did you call Dr. Zelikoff after 11:16
11 fair question. If you want to go back	11 your deposition and say: Hey, how come your
12 through that subject matter and that	12 report and my report had the same language?
13 testimony, that's not in keeping with	13 ATTORNEY O'DELL: Object to the
14 the order, as you know.	14 form.
15 ATTORNEY DAVIDSON: Hey, Leigh, 11:15	15 THE WITNESS: I did not make a 11:17
what was my question?	16 call.
17 ATTORNEY O'DELL: I heard your	17 BY ATTORNEY DAVIDSON:
18 question, and I made my objection.	18 Q. Did you go to plaintiff's counsel
19 ATTORNEY DAVIDSON: Okay. I don't	19 and say: Hey, what the heck, why did she
20 think you heard my question. 11:15	20 copy my report? 11:17
21 ATTORNEY O'DELL: I do believe I	21 ATTORNEY O'DELL: Objection to the
22 did.	22 question.
23 ATTORNEY DAVIDSON: It was not	Do not respond to that question as
24 objectionable. If you heard my	24 it seeks communications between
25 question, your objection was 11:15	25 counsel and yourself. 11:17
Page 11:	-
1 frivolous.	1 BY ATTORNEY DAVIDSON:
2 BY ATTORNEY DAVIDSON:	2 Q. So your testimony is that you took
3 Q. Doctor, since you have the realtime	3 no steps to determine why you and
4 in front of you, I assume I don't need to	4 Dr. Zelikoff had the same language in your
5 repeat my question. Can you answer it? 11:15	5 expert reports after learning about that at 11:17
6 A. So you said Dr. Sell? That's	6 your last deposition; correct?
7 what's on the realtime.	7 ATTORNEY O'DELL: Objection to the
8 Q. Zelikoff.	8 form. Misstates the prior testimony.
9 A. I don't recall Dr. Zelikoff's	9 BY ATTORNEY DAVIDSON:
10 report or seeing it. 11:15	10 Q. Is that correct, Doctor? 11:17
11 Q. That's not my question. My	11 A. I've not reached out to
12 question is you did recall you told me	12 Dr. Zelikoff for any reason.
13 that you reread your deposition. You do	13 Q. At your last deposition, you were
14 recall that at your last deposition, you	14 asked about two sentences from your report
15 were asked why there was language identical 11:1	6 15 that were identical to language from a 2002 11:18
16 in your report and Dr. Zelikoff's report.	16 article by Coussens called Inflammation in
17 My question is: Have you had an	17 Cancer.
	18 Is there a reason why you didn't
18 opportunity, since your deposition in 2019,	
<ul><li>18 opportunity, since your deposition in 2019,</li><li>19 to conduct any sort of investigation into</li></ul>	19 add a citation to Coussens' Inflammation in
	19 add a citation to Coussens' Inflammation in 20 Cancer in your amended report? 11:18
19 to conduct any sort of investigation into	
<ul><li>19 to conduct any sort of investigation into</li><li>20 why your report and Dr. Zelikoff's report 11:16</li></ul>	20 Cancer in your amended report? 11:18
19 to conduct any sort of investigation into 20 why your report and Dr. Zelikoff's report 11:16 21 had the same language in it?	20 Cancer in your amended report? 11:18 21 A. No, no specific reason. Do you
<ul> <li>19 to conduct any sort of investigation into</li> <li>20 why your report and Dr. Zelikoff's report</li> <li>21 had the same language in it?</li> <li>22 A. So I have not specifically</li> </ul>	20 Cancer in your amended report? 11:18 21 A. No, no specific reason. Do you 22 have those sentences is that available as

	Page 118			Page 120
1	Are you offering any opinions about	1	form.	
2	asbestos?	2	THE WITNESS: I'm only able to	
3	A. I'm not sure I understand your	3	review the materials that I have	
4	question. Am I offering any opinions about	4	available.	
	specifically asbestos in isolation or 11:19	5	BY ATTORNEY DAVIDSON:	11:21
1	asbestos in the context of this bio of	6	Q. And you also didn't ask for	
	the biological plausibility?	7		
8	Q. Either one.	8	ATTORNEY O'DELL: Object to the	
9	A. I think my report contains an	9	form.	
10	opinion as to the totality of the components 11:19	10		11:21
1	within tale, of which asbestos is one. If	11	additional material specifically that	
	that aligns with your question, then yes,	12	<u> </u>	
	I'm offering but I'm offering an opinion		BY ATTORNEY DAVIDSON:	
	on the totality of talc and its components.	14		
	I have not performed an analysis to 11:19	15		1:21
	specifically break apart the relative		guess I have not generally made the reques	
	contributions of any components that may or		for anything that would be in the negative	ι
	may not be present in talc.		in the sense that I also didn't ask for	
19	Q. Are you offering an opinion that		other reports that support Dr. Longo's	
	Johnson's Baby Powder contained talc? 11:20		testimony or his report either. 11:	22
$\begin{vmatrix} 20\\21 \end{vmatrix}$	ATTORNEY O'DELL: Object to the	20	Q. You're also not offering any	<i>LL</i>
21 22	form.		opinions in 2024 with respect to cleavage	
	BY ATTORNEY DAVIDSON:			
			fragments or fibrous talc; correct?  ATTORNEY O'DELL: That's a in	
24	Q. I'm sorry. That Johnson's Baby	24		11.22
23	Powder contained asbestos. Sorry. 11:20	25	2024, is that what your question was?	11:22
	Page 119	١.	ATTORNEY DANIBGON I II 10004	Page 121
1	ATTORNEY O'DELL: Again, Jessica,	1	ATTORNEY DAVIDSON: I added 2024	
2	this goes back to language that was	2	so you wouldn't tell me that it was	
3	included in his 2018 report. If you	3	asked in 2019. I need to know what	
4	have something new you want to ask	4	the current opinions are.	
5	him, he's certainly here to answer 11:20	5	ATTORNEY O'DELL: As you know, his	11:22
6	your questions, but he's not here to	6	opinions are outlined in his report.	
7	go back over previous aspects of his	7	ATTORNEY DAVIDSON: Thanks.	
8	report that have not been amended or	8	THE WITNESS: Again, my report did	
9	changed.	9	not attempt to separate any specific	
	BY ATTORNEY DAVIDSON: 11:20	10	components or subcomponents or 11:2	22
11	Q. Dr. Levy, are you offering the	11	structures within. It was more to	
1	opinion in 2024 that Johnson's Baby Powder	12	consider the biological plausibility	
	contained asbestos?	13	of talc as a whole, the product as a	
14	A. I wasn't asked to provide an	14	whole.	
1	opinion on whether Johnson's Baby Powder 11:20	15	BY ATTORNEY DAVIDSON:	11:22
16	contained asbestos.	16	Q. Great. So you don't have separate	
17	Q. Excellent. That will shorten your	17	1 5	
18	deposition today.	18	either?	
19	A. My only opportunity in that subject	19	ATTORNEY O'DELL: Objection to the	
20	has been the review of the other reports 11:20	20	form. Misstates his prior testimony. 11:23	3
21	from Dr. Longo primarily.	21	THE WITNESS: I mean, I again,	
22	Q. And we established that you did not	22	I have opinions on both of those	
23	conduct a complete review because you never	23	subjects, but are we asking about the	
24	looked at the responsive reports; correct?	24	content of the report? So within my	
25	ATTORNEY O'DELL: Objection to the 11:21	25	report, I did not specifically 11:23	

5 400		5 (2)
Page 122  differentiate the relative risk or	1	same opinions he offered in his 2018
2 other components of any of those	2	report.
3 things because, again, that wasn't the	3	ATTORNEY DAVIDSON: How do you
4 request, nor did my literature review	4	know? How do you know it's the same
	5	opinions, Leigh? You're testifying 11:25
1		
6 subcomponents and then the testing of	6 7	now. ATTORNEY O'DELL: No, I'm not.
7 them relative to cancer. Certainly my 8 opinions based on the review of other	8	I'm just saying you're asking him a
1	9	general question about heavy metals.
9 materials, including the expert	10	• 1
10 reports of other witnesses, allow me 11:23	11	And what I'm trying to do, Jessica, 11:25 is
11 to generate an opinion in that area.	12	
12 BY ATTORNEY DAVIDSON:		ATTORNEY O'DELL What I'm trains
Q. What do you mean by you have	13	ATTORNEY O'DELL: What I'm trying
14 opinions that are not set forth in your	14	to do is make clear that the purpose
15 report? 11:24	15	of this deposition is for new 11:25
16 ATTORNEY O'DELL: Objection.	16	materials. And so for you to ask
17 That's not what he said.	17	ATTORNEY DAVIDSON: He just told
18 ATTORNEY DAVIDSON: That is what	18	me that he has opinions on heavy
19 he said.	19	metals and fragrances that aren't in
20 ATTORNEY O'DELL: No, it's not. 11:24	20	his report. 11:25
21 THE WITNESS: I said my report had	21	ATTORNEY O'DELL: He did not say
22 the request of focusing in specific	22	that.
23 areas, which it does. But you're	23	ATTORNEY DAVIDSON: Yes, he did.
24 asking you didn't ask if you	24	ATTORNEY O'DELL: He said they
25 asked if I have an opinion. 11:24	25	were in his report. 11:25
Page 123		Page 125
1 BY ATTORNEY O'DELL:	1	ATTORNEY DAVIDSON: That they
2 Q. Do you plan to offer any expert	2	weren't in his report.
3 opinions at trial besides those set forth in	3	ATTORNEY O'DELL: They are in his
4 your report?	4	report. It's on page 18.
5 A. I guess it depends on what 11:24	5	ATTORNEY DAVIDSON: That's not 11:26
6 questions I'm asked. If those questions	6	what he said. He said he has opinions
7 come for subjects that are outside the	7	on heavy metals and fragrance that are
8 report but it's an area that I can provide	8	not in his report.
9 an opinion on based on my background and	9	ATTORNEY O'DELL: You're
10 experience or based on other information, I 11:24	10	intentionally trying to confuse what 11:26
11 suppose I would have to ask for	11	he was explaining.
12 clarification on that from a procedural	12	ATTORNEY DAVIDSON: Intentionally?
13 perspective. I guess I don't I guess I	13	I'm intentionally telling you he said
14 don't know what is fair game outside of	14	aren't when I thought I heard are?
15 what's contained in a report at trial. 11:24	15	Are you out of your mind? He said 11:26
Q. When you say you have opinions on	16	aren't.
17 heavy metals and fragrances, what are those	17	ATTORNEY O'DELL: You're trying
18 opinions?	18	ATTORNEY DAVIDSON: I'm trying?
19 ATTORNEY O'DELL: Objection to the	19	Leigh, I heard him say aren't. If he
20 form. He said he had it he 11:25	20	said are in his report, great. Then 11:26
21 expressed it in his report, and those	21	we can move on.
22 are	22	ATTORNEY O'DELL: Just ask the
23 ATTORNEY DAVIDSON: He said he has	23	question, Jessica.
24 opinions.	24	ATTORNEY DAVIDSON: I thought he
25 ATTORNEY O'DELL: Those are the 11:25	25	said aren't. 11:26

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1 ATTORNEY O'DELL: Why don't you	1 of background, but your opinions are about
2 ask the question.	2 talc as a whole?
3 ATTORNEY DAVIDSON: The problem,	3 A. Yes, my opinions are were
4 Leigh, is that you are over and over	4 focusing on the totality of the product. I
5 telling Dr. Levy what you want him to 11:26	5 wasn't asked to offer an opinion breaking 11:28
6 say. This has been ongoing.	6 those things apart.
7 ATTORNEY O'DELL: That is	7 Q. Okay. Great. That will shorten
8 incorrect.	8 this deposition.
9 ATTORNEY DAVIDSON: Since 10	_
10 o'clock in the 12 o'clock. I'm 11:26	not trying to confuse anything. I was 11:28
11 confused by the time zones.	absolutely certain he said not when
For two hours, you have been	12 you heard him say was.
13 trying to feed testimony to Dr. Levy	13 ATTORNEY O'DELL: Maybe the
in the most transparent way I've ever	14 vagaries of a Zoom deposition and not
15 seen. 11:26	being able to hear; so maybe that's 11:28
16 ATTORNEY O'DELL: That's	what caused the confusion.
17 incorrect.	17 ATTORNEY DAVIDSON: I would never
18 BY ATTORNEY DAVIDSON:	do something like that. I want that
19 Q. Dr. Levy, maybe I misunderstood.	19 to be clear.
20 So let's let Dr. Levy speak for 11:26	Why don't we take it's been 11:29
21 himself. He's a grown man.	21 about an hour. I can't remember if we
Dr. Levy, what were you trying to	22 came back at 1:30. Why don't we take
23 say? And I apologize if I misunderstood. I	23 ten minutes or five. Seven?
24 was trying to sort of figure out what you're	24 ATTORNEY O'DELL: Yeah, five,
25 not talking about so we can shorten this 11:27	25 seven minutes, that would be great. 11:29
Page 127	Page 129
1 deposition because it's three hours later	1 (Recess taken from 11:29 a.m. to
2 here. So maybe I did misunderstand you.	2 11:40 a.m.)
3 Why don't you explain what you were trying	3 BY ATTORNEY DAVIDSON:
4 to say.	4 Q. Doctor, can you cite any evidence
5 A. You were asking about fragrance 11:27	5 to support the theory that environmental 11:41
6 specifically separate from heavy metals,	6 carcinogens increase the likelihood that
7 specifically separate from other components	7 BRCA1 or 2 mutation will lead to ovarian
8 of talc.	8 cancer?
9 Q. Correct.	9 A. I'm just rereading your question.
10 A. And I was trying to explain that I 11:27	10 Q. Okay. 11:41
11 had, in detail, considered that as the	11 A. So the and this wasn't part of
12 totality of the product. In my report,	12 the report, but there's an interesting
13 there are subreferences to other materials,	13 observation relative to BRCA1 and 2
14 Dr. Crowley specifically, where there was	14 mutations that was made by the discoverer of
15 other opinions offered in more detail about 11:27	15 those mutations, Mary Claire King, in 1990. 11:41
16 the components such as fragrances and their	16 And that is, as time has gone on, the impact
17 potential to have carcinogenic compounds and	17 or the relative risk that BRCA1 and 2
18 heavy metals and their known	18 mutations impart for both breast and ovarian
19 carcinogenicity. But I was not attempting	19 cancer has increased, meaning the age has
20 to tease those out and offer a relative risk 11:27	20 gotten younger, but it's not known at this 11:42
21 or a relative contribution to those	21 time whether that's due to environmental
22 meaning prioritizing which is the most	22 factors or whether that's due to things like
23 significant to least significant because	23 less women getting pregnant or women having
24 that wasn't part of my analysis.	24 children at later ages.
25 Q. So you mentioned them as some sort 11:28	25 So more research needs to be done, 11:42

	p <sub>:</sub>	age 130		Page 132
1 but	t there does appear to be an association	age 130	1	THE WITNESS: Not directly.
	at BRCA1 and 2 mutations are increasing in		_	BY ATTORNEY DAVIDSON:
	eir impact in cancer risk as time goes on.		3	Q. Is it your opinion that talc causes
	at's, again, broadly summarizing that		4	malignant transformation in normal human
	erature. 11:42			ovarian cells? 11:45
6 (	Q. But are you aware of any scientific		6	A. As I think we mentioned before, I
	idence that an environmental carcinogen		7	wasn't asked to provide an opinion on
	e talc would increase the likelihood that			causation; so I would not use the word
9 a B	BRCA1 or 2 mutation would lead to ovarian		9	cause.
10 can	ncer? 11:42		10	Q. Are you providing an opinion on 11:45
11 A	A. So they're not so indirectly		11	malignant transformation?
12 the	e and what I was asked to do is, in the		12	A. My opinions are based on the
13 pro	ovision of that evidence, indirectly there		13	totality of the process. Can talc create an
14 are	kind of two different components to a		14	environment that can contribute to malignant
15 cor	mplex outcome being cancer. So BRCA1 and 1	1:43	15	transformation? 11:45
16 2 ir	nhibit DNA repair. That inhibition of		16	I am aware of Buz'Zard. We can
17 DN	NA repair would then likely make external		17	find the exact reference to give you the
18 fac	ctors, regardless of source, whether it be		18	specific answer, but there have been studies
19 talo	c or other sources. Your initiation		19	both in vivo and more so in vitro looking at
20 eve	ents or other things can be it's kind 11:43		20	the role that talc may play in malignant 11:46
	or maybe an analogy is the BRCA1 and 2			transformation.
	ntation are like putting a snowball at the		22	Q. Did the Buz'Zard paper show
	of the hill, and that external insult,			malignant transformation?
	nether it be talc or other carcinogens, can		24	A. I believe markers of that. I think
25 kin	nd of help kick that snowball down the 11:43		25	that was an in vitro study. 11:46
		age 131		Page 133
1 hi			1	Q. Has any scientist ever shown that
2	Q. But my question is I understand			talc causes malignant transformation?
	ne theory.		3	ATTORNEY O'DELL: Object to the
4	My question is: Can you point to	11.42	4	form, other than what he just
		11:43	5	testified to. 11:46
	neory?		6	THE WITNESS: Sorry. Your
7	ATTORNEY O'DELL: Objection to		7	question was has any scientist shown
8	form.  THE WITNESS: There's been I'm		8	
Q	THE VELL NEWS THE RESIDENCE LINE		0	that talc causes
9 10				BY ATTORNEY DAVIDSON:
10	trying to think if any of the studies 1	1:44	10	BY ATTORNEY DAVIDSON: Q. Ever shown that talc causes 11:46
10 11	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if		10 11	BY ATTORNEY DAVIDSON: Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.
10 11 12	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the		10 11 12	BY ATTORNEY DAVIDSON: Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells. A. In in vitro experiments, as far as
10 11 12 13	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses.		10 11 12 13	BY ATTORNEY DAVIDSON: Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells. A. In in vitro experiments, as far as the ability of those in vitro experiments to
10 11 12 13 14	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I	1:44	10 11 12 13 14	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there
10 11 12 13 14 15	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of	1:44	10 11 12 13 14 15	BY ATTORNEY DAVIDSON: Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells. A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46
10 11 12 13 14 15 16	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any	1:44	10 11 12 13 14 15 16	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that
10 11 12 13 14 15 16 17	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that	1:44	10 11 12 13 14 15 16 17	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.
10 11 12 13 14 15 16 17 18	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.	1:44	10 11 12 13 14 15 16 17 18	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc
10 11 12 13 14 15 16 17 18 19 B	trying to think if any of the studies had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.  Y ATTORNEY DAVIDSON:	1:44	10 11 12 13 14 15 16 17 18 19	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc can cause malignant transformation in
10 11 12 13 14 15 16 17 18 19 B	trying to think if any of the studies had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses.  Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.  Y ATTORNEY DAVIDSON:  Q. Similarly, are you can you point	1:44	10 11 12 13 14 15 16 17 18 19 20	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc can cause malignant transformation in ovarian cells in vitro? 11:47
10 11 12 13 14 15 16 17 18 19 B 20 21 to	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.  Y ATTORNEY DAVIDSON: Q. Similarly, are you can you point any scientific literature supporting the	1:44 11:44 11:44	10 11 12 13 14 15 16 17 18 19 20 21	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc can cause malignant transformation in ovarian cells in vitro? 11:47  A. Let me look to get you the
10 11 12 13 14 15 16 17 18 19 B' 20 21 to 22 th	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.  Y ATTORNEY DAVIDSON: Q. Similarly, are you can you point any scientific literature supporting the neory that carcinogens would increase the	1:44	10 11 12 13 14 15 16 17 18 19 20 21 22	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc can cause malignant transformation in ovarian cells in vitro? 11:47  A. Let me look to get you the reference. I'm trying to think where that
10 11 12 13 14 15 16 17 18 19 B' 20 21 to 22 th	trying to think if any of the studies 1 had BRCA1 and 2. I don't recall if the studies had that as a had the BRCA1 and 2 mutational statuses. Certainly the epidemiology studies I don't think did, but the remainder of the studies, I don't recall seeing any direct literature to answer that question.  Y ATTORNEY DAVIDSON: Q. Similarly, are you can you point any scientific literature supporting the	1:44	10 11 12 13 14 15 16 17 18 19 20 21 22	BY ATTORNEY DAVIDSON:  Q. Ever shown that talc causes 11:46 malignant transformation in ovarian cells.  A. In in vitro experiments, as far as the ability of those in vitro experiments to mimic malignant transformation, yes, there have been studies that have shown that. I 11:46 am not aware of a study that has shown that in vivo.  Q. What studies have shown that talc can cause malignant transformation in ovarian cells in vitro? 11:47  A. Let me look to get you the

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1 summary of references; so I know that these	1 THE WITNESS: Again, I'd say we
2 are the in vitro studies. Fletcher	2 can answer that question as we look at
3 described induction of point mutations after	3 the papers.
4 exposure.	4 BY ATTORNEY DAVIDSON:
5 It would be fair yeah. So those 11:48	5 Q. Is there a reason why you don't 11:50
6 are the and I think the Harper described	6 discuss Harper 2023 in your report?
7 the neoplastic transformation. Whether you	7 A. I'd have to look at Harper again.
8 consider that malignant transformation is,	8 No specific reason comes to mind. I'd have
9 of course, debatable.	9 to look at the paper to either remind myself
10 Q. So I'm not sure what your answer 11:48	10 why or indicate. 11:50
11 is. I just want to make sure I have a clean	11 Q. It's on page 7 of your materials
12 answer to my question.	12 and data considered list, Harper I think
13 What papers would you say show	13 you were just when I just asked you that
14 malignant transformation in vitro to ovarian	14 question, were you looking at your materials
15 cells? 11:48	15 and data considered list? 11:50
16 ATTORNEY O'DELL: Objection to the 17 form. Asked and answered.	<ul><li>16 A. (No verbal response.)</li><li>17 Q. Sir?</li></ul>
17 Form. Asked and answered.  18 THE WITNESS: So as I said, if	17 Q. Sit? 18 A. Yes.
·	
19 there's been the paper's focused on	,
20 neoplastic transformation. So you're 11:48	20 I assume that's what you were looking at to 11:51
21 asking about malignant transformation.	<ul><li>21 answer my prior question; correct?</li><li>22 A. That's correct.</li></ul>
22 Are you suggesting there's a	
23 difference, or are you interested in	Q. And you were looking at the Harper
24 if there's a difference, or are you	24 paper published in Minerva Obstetrics and
25 looking for the change in cellular 11:49	25 Gynecology 2023; correct? 11:51
Page 135	Page 137
1 behavior based on exposure to talc	1 ATTORNEY O'DELL: Objection to the
2 that has the markers that are similar	2 form.
3 to or would be considered in the same	3 THE WITNESS: No.
4 biological process as a transformative	4 BY ATTORNEY DAVIDSON:
5 event? 11:49	5 Q. You were looking at the entry in 11:51
6 BY ATTORNEY DAVIDSON:	6 your materials and data considered for
7 Q. If you prefer to use the term	7 Harper 2023 Minerva Obstetrics and
8 "neoplastic transformation," I'm happy to	8 Gynecology, no?
9 ask the question as: What papers do you	9 A. I wasn't looking at that specific
10 believe have shown that talc causes 11:49	10 entry. 11:51
11 neoplastic transformation in normal human	Q. When you said Harper 2023, what
12 ovarian cells?	12 were you reading from?
A. I'd have to look back at the papers	13 A. I was looking at notes and then my
14 in more detail to make sure specifically	14 report.
15 when you're saying "normal human ovarian 11:49	
16 cells."	16 A. The ones we were talking about
17 Q. Do you know that we'll look at	17 earlier.
18 the papers. I promise.	18 ATTORNEY DAVIDSON: Okay. Let's
But do you know whether there are	19 take a break. Let's go off the
20 any papers have shown that talc causes 11:50	20 record. 11:51
21 malignant transformation or neoplastic	21 (Recess taken from 11:51 a.m. to
22 transformation in normal human ovarian	22 12:11 p.m.)
23 cells?	23 BY ATTORNEY DAVIDSON:
24 ATTORNEY O'DELL: Object to the	Q. Dr. Levy, I'm confused a little bit
25 form. 11:50	25 because so when I was asking you what 12:11

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PageID: 202705	

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1 articles support provide evidence that	1 two separate papers?
2 talc can cause malignant transformation,	2 A. No. There's a paper that the
3 ovarian cells, you pointed to three papers.	3 authors are Fletcher and Harper, and there's
4 And I said: Were you looking at your	4 a separate paper where Harper is the first
5 materials considered when you cited those 12:11	5 author. When I was looking between the 12:13
6 papers? I thought you said: No, I was	6 report and the materials cited list, I
7 looking at my notes. But during the break,	7 looked at my reference to Fletcher and
8 counsel produced your notes and your notes	8 Harper 2019 as two separate papers. When I
9 don't mention those papers. So now I'm just	9 looked to get the complete reference in the
10 confused, and I'm afraid I misunderstood. 12:12	10 material list rather than the bibliography. 12:14
11 ATTORNEY O'DELL: Objection to	11 Harper
12 form.	12 Q. It's your testimony sorry.
13 BY ATTORNEY DAVIDSON:	13 A. Harper 2023 is on the materials
14 Q. So can you explain what you were	14 cited list, but it's not referenced in the
15 looking at when you listed Harper 2023, 12:12	15 report. 12:14
16 Buz'Zard, Lau, and Fletcher?	Q. But it's your testimony that both
17 A. I mentioned Buz'Zard, Lau, and	17 Harper 2023 and Fletcher 2019 show
18 Fletcher and I misread Harper. I had pulled	18 neoplastic transformation in normal ovarian
19 it up on the materials list and in my	19 cells?
20 report. If you look on page 15 of the 12:12	20 ATTORNEY O'DELL: Objection to 12:1-
21 report, that section is what I was looking	21 form.
22 at when I was answering the question. You	22 THE WITNESS: No.
23 see it says Fletcher Harper 2019. But then	23 BY ATTORNEY DAVIDSON:
24 the Harper it was just my mistake. I	24 Q. What's your
25 read Fletcher, Harper as two papers; so 12:12	25 A. We were discussing more about in 12:14
Page 13	Page 14
1 that's Fletcher and Harper as one, and then	1 vitro studies, and I was giving references
2 Harper coincidentally is the 2023. So it's	2 to some of the in vitro studies like the
3 a misunderstanding.	3 Buz'Zard, the Fletcher, and others. So it
4 Q. So when you said you were looking	4 wasn't specifically the neoplastic
5 at your notes, you weren't actually looking 12:12	
	5 transformation. 12:14
6 at your notes?	5 transformation. 12:14 6 Then in looking at the Harper, of
6 at your notes? 7 ATTORNEY O'DELL: Objection.	
	6 Then in looking at the Harper, of
7 ATTORNEY O'DELL: Objection.	6 Then in looking at the Harper, of 7 course, the title of that paper is Malignant
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13	6 Then in looking at the Harper, of 7 course, the title of that paper is Malignant 8 Transformation of Human Primary Normal 9 Ovarian Epithelial Cells. Since these are 10 all from the same laboratory group, it was 12:15
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It	6 Then in looking at the Harper, of 7 course, the title of that paper is Malignant 8 Transformation of Human Primary Normal 9 Ovarian Epithelial Cells. Since these are
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON:	6 Then in looking at the Harper, of 7 course, the title of that paper is Malignant 8 Transformation of Human Primary Normal 9 Ovarian Epithelial Cells. Since these are 10 all from the same laboratory group, it was 12:15 11 just a confusion between telling you 12 Fletcher and Harper is two papers, and then
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper	6 Then in looking at the Harper, of 7 course, the title of that paper is Malignant 8 Transformation of Human Primary Normal 9 Ovarian Epithelial Cells. Since these are 10 all from the same laboratory group, it was 12:15 11 just a confusion between telling you 12 Fletcher and Harper is two papers, and then 13 looking at Harper and then seeing that in
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper,	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was 12:15 It just a confusion between telling you Fletcher and Harper is two papers, and then looking at Harper and then seeing that in the title. So it answers the two different
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was 12:15 If just a confusion between telling you Pletcher and Harper is two papers, and then looking at Harper and then seeing that in the title. So it answers the two different guestions. 12:15
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was 12:15 It just a confusion between telling you Fletcher and Harper is two papers, and then looking at Harper and then seeing that in the title. So it answers the two different questions.  12:15 Q. Let's just start over. I'm trying
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of 17 the report. The materials referenced list	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was Iz:15 If just a confusion between telling you If Fletcher and Harper is two papers, and then If looking at Harper and then seeing that in If the title. So it answers the two different If questions. It is:15 If Q. Let's just start over. I'm trying If to find out: You are offering an opinion on
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of 17 the report. The materials referenced list 18 is an easier one to look at as far as	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was Iz:15 If just a confusion between telling you If Fletcher and Harper is two papers, and then If looking at Harper and then seeing that in If the title. So it answers the two different If questions. It:15 If Q. Let's just start over. I'm trying If to find out: You are offering an opinion on If biological plausibility. I want to
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of 17 the report. The materials referenced list 18 is an easier one to look at as far as 19 finding a reference; so I turned to that.	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was Iz:15 If just a confusion between telling you If Fletcher and Harper is two papers, and then If looking at Harper and then seeing that in If the title. So it answers the two different If questions. It:15 If Q. Let's just start over. I'm trying If to find out: You are offering an opinion on If biological plausibility. I want to If understand whether it is your testimony that
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of 17 the report. The materials referenced list 18 is an easier one to look at as far as 19 finding a reference; so I turned to that. 20 That's why I said the confusion is Harper 12:13	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was Fletcher and Harper is two papers, and then looking at Harper and then seeing that in the title. So it answers the two different functions.  12:15 Q. Let's just start over. I'm trying find out: You are offering an opinion on find out: You are offering an opinion on understand whether it is your testimony that any scientific papers have shown that talc
7 ATTORNEY O'DELL: Objection. 8 THE WITNESS: No. I said I was 9 looking at materials and my notes. It 10 was not either/or. I was looking at 12:13 11 those items. 12 BY ATTORNEY DAVIDSON: 13 Q. So where were you reading Harper 14 2023 from because it's not in your paper, 15 and it's not on your notes? 12:13 16 A. No. I read Harper on page 15 of 17 the report. The materials referenced list 18 is an easier one to look at as far as 19 finding a reference; so I turned to that. 20 That's why I said the confusion is Harper 12:13 21 2023 is a separate paper from Fletcher and	Then in looking at the Harper, of course, the title of that paper is Malignant Transformation of Human Primary Normal Ovarian Epithelial Cells. Since these are all from the same laboratory group, it was Fletcher and Harper is two papers, and then looking at Harper and then seeing that in the title. So it answers the two different questions.  12:15 Q. Let's just start over. I'm trying find out: You are offering an opinion on looking any scientific papers have shown that talc any scientific papers have shown that talc can cause neoplastic transformation in
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Page 142	Page
1 THE WITNESS: So I answered that	1 A. No, I'm not aware.
2 question with there's a number of	2 Q. I take it that you're not aware
3 papers that show the in vitro effects	3 that one of those peer-reviewed comments
4 of talc on cells with various markers	4 refers to the author's conclusions as
5 that could be interpreted as 12:15	5 outrageous? 12:18
6 transformation. The only paper that	6 ATTORNEY O'DELL: Object to the
7 directly has that in the title is the	7 form. Object to the form. Assumes
8 Harper 2023 paper, but that is not	8 facts not in evidence. If you want to
9 referenced in the report.	9 show him something to review, he can
10 BY ATTORNEY DAVIDSON: 12:16	
11 Q. I'm not asking whether it's in the	11 THE WITNESS: I'm not aware.
12 title.	12 BY ATTORNEY DAVIDSON:
13 I'm asking: Has any scientist	13 Q. You're not aware that the peer
14 shown that talc can cause neoplastic	14 reviewer said that the conclusions are not
15 transformation in ovarian cells? 12:16	15 supported by the manuscript's data; correct? 12:1
16 A. The Harper paper.	16 ATTORNEY O'DELL: Object to the
17 Q. And is it your testimony that the	17 form.
18 Harper paper shows neoplastic transformation	18 THE WITNESS: I would have no way
19 in ovarian cells?	19 of accessing those comments or those
20 A. Correct. 12:16	20 reviews. 12:18
21 Q. Did you evaluate whether the Harper	21 BY ATTORNEY DAVIDSON:
22 paper is reliable?	22 Q. If your lawyers have them, then you
23 A. In what way?	23 would have a way of accessing them; right?
24 Q. In any way.	24 ATTORNEY O'DELL: Object to the
25 A. Not any more so than I did any of 12:17	25 form. 12:19
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	Page
1 the other literature review.	1 THE WITNESS: I certainly didn't
<ol> <li>the other literature review.</li> <li>Q. Are you familiar with Minerva</li> </ol>	<ul><li>THE WITNESS: I certainly didn't</li><li>ask the lawyers if they had review</li></ul>
<ul> <li>1 the other literature review.</li> <li>2 Q. Are you familiar with Minerva</li> <li>3 Obstetrics and Gynecology?</li> </ul>	THE WITNESS: I certainly didn't ask the lawyers if they had review comments on the body of literature
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	Page 146	Page 148
1	ATTORNEY O'DELL: Let him finish.	1 me whether if the authors
2	THE WITNESS: It's really up to	2 A. Is your question if the if all
3	the authors' and reviewers' opinions	3 of the content of the paper is false or
4	if those markers represent enough of	4 unreliable, could they then draw that
5	-	5 conclusion? Is that your question? 12:22
6		6 Q. If the science, methodology, and
7		7 data of the paper cannot be trusted, can you
8	Q. Do you think the authors provided	8 still draw the conclusion that the authors
9		9 have shown neoplastic transformation?
10	_	10 ATTORNEY O'DELL: Object to the 12:22
11	•	11 form. Incomplete hypothetical.
12	ž –	12 THE WITNESS: What do you mean by
13		13 "cannot be trusted"? Meaning, needs
14		14 to be confirmed? We're talking about
15		15 a so the process of science is 12:22
	BY ATTORNEY DAVIDSON:	16 continual evaluation and revision to
17		observations that are made and
	to a peer-reviewed journal and received a	published. That's the whole spirit of
19		19 peer review.
	trusted? 12:20	20 BY ATTORNEY DAVIDSON: 12:22
21	ATTORNEY O'DELL: Objection to the	21 Q. Do you have sufficient experience
22	ž –	22 in cell biology to know whether the science
23		23 and methodology whether the methodology
	BY ATTORNEY DAVIDSON:	24 used in Harper 2023 was appropriate and
25		25 sufficient to find neoplastic 12:23
	Page 147	Page 149
1	a journal and received a comment that said	1 transformation?
	the problems with your submission are too	2 A. Again, happy to review the paper to
	numerous to count and the science,	3 provide an answer. Generally speaking, yes,
	methodology, and data cannot be trusted?	4 I have experience deep experience in cell
5	ATTORNEY O'DELL: Object to the 12:21	5 biology, but I have not I would need to 12:23
6	form.	6 relook at the paper to answer that question
7	THE WITNESS: No, I have not.	7 as if my specific experience aligns well
8	BY ATTORNEY DAVIDSON:	8 enough to their methodology to answer that
9		9 question.
	cell biology to know whether the science 12:21	10 Q. Prior to telling me 12:23
11	methodology and data in the Harper 2023	11 A. I would
	methodology and data in the Harper 2023 paper can be trusted?	_
	paper can be trusted?	<ul><li>11 A. I would</li><li>12 ATTORNEY O'DELL: Excuse me. Just</li></ul>
12 13	paper can be trusted?  A. I would have to review the paper in	11 A. I would 12 ATTORNEY O'DELL: Excuse me. Just 13 because of Zoom, I don't think you
12 13 14	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that	11 A. I would 12 ATTORNEY O'DELL: Excuse me. Just 13 because of Zoom, I don't think you 14 heard. He was still answering the
12 13 14 15	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21	11 A. I would 12 ATTORNEY O'DELL: Excuse me. Just 13 because of Zoom, I don't think you 14 heard. He was still answering the 15 question. 12:23
12 13 14 15 16	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21  Q. If the science, methodology, and	11 A. I would 12 ATTORNEY O'DELL: Excuse me. Just 13 because of Zoom, I don't think you 14 heard. He was still answering the 15 question. 12:23 16 ATTORNEY DAVIDSON: It's very hard
12 13 14 15 16 17	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then	11 A. I would 12 ATTORNEY O'DELL: Excuse me. Just 13 because of Zoom, I don't think you 14 heard. He was still answering the 15 question. 12:23 16 ATTORNEY DAVIDSON: It's very hard 17 because he stops and then he suddenly
12 13 14 15 16 17 18	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic	A. I would ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23 ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to
12 13 14 15 16 17 18 19	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic transformation; correct?	A. I would  ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23  ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to know when he's done.
12 13 14 15 16 17 18 19 20	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic transformation; correct?  ATTORNEY O'DELL: Objection to the 12:21	A. I would  ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23  ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to know when he's done.  ATTORNEY O'DELL: Just give him a 12:23
12 13 14 15 16 17 18 19 20 21	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic transformation; correct?  ATTORNEY O'DELL: Objection to the 12:21 form. Incomplete hypothetical,	A. I would  ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23  ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to know when he's done.  ATTORNEY O'DELL: Just give him a 12:23 moment. He's trying to do the very
12 13 14 15 16 17 18 19 20 21 22	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  12:21  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic transformation; correct?  ATTORNEY O'DELL: Objection to the 12:21 form. Incomplete hypothetical, misstates the record.	A. I would  ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23  ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to know when he's done.  ATTORNEY O'DELL: Just give him a 12:23 moment. He's trying to do the very best he can; so if you just give him a
12 13 14 15 16 17 18 19 20 21 22 23	paper can be trusted?  A. I would have to review the paper in more detail to give you an answer to that question.  Q. If the science, methodology, and data of Harper 2023 cannot be trusted, then the authors would not have shown neoplastic transformation; correct?  ATTORNEY O'DELL: Objection to the 12:21 form. Incomplete hypothetical,	A. I would  ATTORNEY O'DELL: Excuse me. Just because of Zoom, I don't think you heard. He was still answering the question. 12:23  ATTORNEY DAVIDSON: It's very hard because he stops and then he suddenly starts again. So it's impossible to know when he's done.  ATTORNEY O'DELL: Just give him a 12:23 moment. He's trying to do the very

Dags 150	Dags 152
Page 150  1 ATTORNEY O'DELL: No, no. He's	Page 152  1 than dosing than would be expected
2 not finished with his answer. Please	
3 continue.	dosing in in vivo studies. They're
	3 two different questions.
4 BY ATTORNEY DAVIDSON:	The question being asked by this
5 Q. Are you still answering the 12:23	5 paper is: Can talc cause neoplastic 12:25
6 question?	6 transformation? It's a different
7 A. You two were talking. I didn't	7 question whether the dosing that
8 want to interrupt and start again.	8 causes that is physiological or not.
9 My ending thought was the same	9 BY ATTORNEY DAVIDSON:
10 comment about whether I had the experience 12:24	
11 to make that evaluation would need to be	11 that was used in the study?
12 applied to the reviewers that made the	12 A. I'd need to take a moment to look
13 statements that you described that were in	13 at the paper to remind myself.
14 those reviews. Did they have the same	14 Q. When you read "the paper," did you
15 opportunity to review the paper, and did 12:24	15 research the assay that was used? 12:26
16 they have the experience to come to those	16 A. Again, I'll have to take a moment
17 conclusions? Again, this is the entire	17 to look.
18 spirit and process of peer review.	18 Q. I'm asking you: When you read the
19 Q. Have you ever been asked to be a	19 paper, did you go and research the assay?
20 reviewer for Gynecologic Oncology? 12:24	20 ATTORNEY O'DELL: His work on this 12:26
21 A. No, I don't believe so.	21 case has been going on for
22 Q. Have you ever been asked to be a	22 ATTORNEY DAVIDSON: Leigh
23 reviewer for Reproductive Sciences?	23 ATTORNEY O'DELL: Let me finish.
24 A. No.	24 His report
25 Q. Have you ever been asked to be a 12:24	25 ATTORNEY DAVIDSON: That's not a 12:26
Page 151	Page 153
1 reviewer for PLOS1?	1 proper objection.
2 A. Yes.	2 ATTORNEY O'DELL: Well, I believe
3 Q. Before telling me that these	3 it is. You're asking him define
4 authors found neoplastic transformation, did	4 specific questions about in vitro
5 you evaluate what methodology they used? 12:24	5 study, and he's entitled to look at it 12:26
6 A. In general.	6 if he's going to respond to your
7 Q. Before telling me that these	7 questions. It's not fair to ask him a
8 authors found neoplastic transformation, did	8 question in isolation about dose when
9 you assess whether the dose they used is	9 he's asked to look at the paper. He
10 likely to ever replicate physiologic dosing? 12:25	10 has these materials available, and 12:26
11 ATTORNEY O'DELL: Dr. Levy, if you	11 he's going to look at them if he needs
12 need to review the paper to remind	12 it to answer your question.
13 yourself of the dose, it's here. We	Dr. Levy, take a moment if you
14 can put it in front of you.	14 need it.
15 BY ATTORNEY DAVIDSON: 12:25	15 BY ATTORNEY DAVIDSON: 12:27
16 Q. I'm not asking you to review the	16 Q. We're not looking at the paper
17 paper.	17 right now, Dr. Levy. You can look at the
18 I'm asking whether you personally,	18 paper when Leigh asks you questions.
19 Dr. Levy, considered whether the dose they	19 ATTORNEY O'DELL: No, no, no.
20 used is likely to ever replicate physiologic 12:25	20 He's entitled 12:27
21 dosing?	21 ATTORNEY DAVIDSON: He can look at
22 ATTORNEY O'DELL: Object to the	22 it when you ask him a question about
23 form. Different question.	23 it. I'm allowed to ask a question
24 THE WITNESS: Routinely dosing in	24 about whether he recalls, and he's
25 in vitro studies is vastly different 12:25	25 allowed to say no, and then I'm 12:27
12.20	······································

Page 154	Page 156
1 allowed to move on.	1 address findings related to NSAID use and
2 And we will move on if you don't	2 the development of ovarian cancer?
3 recall.	3 A. Again, I was performing the
4 BY ATTORNEY DAVIDSON:	4 totality of the literature report. I didn't
5 Q. Without looking at the paper, you 12:27	5 specifically look at NSAIDs. I didn't 12:30
6 do not recall whether you researched the	6 specifically look at heavy metals. I didn't
7 assay; correct?	7 specifically look at any of the subjects
8 A. I do not recall.	8 we've been talking about. It's when I did
9 Q. Thank you. Let's move on.	9 the searches and through that systematic
10 If we can turn to page 13 of your 12:27	10 process we were talking earlier, I provided 12:30
11 amended expert report, you cite Trabert Ness	11 updates when I found things that were
12 2014 for the proposition that a more recent	12 available that I found to be relevant.
13 pooled analysis examining 12 case-control	13 Q. That really doesn't answer my
14 studies found that aspirin could reduce	14 question, Doctor.
15 ovarian cancer risk by 20 to 34 percent. 12:28	15 My question is: Did you attempt to 12:30
16 You see that; right?	16 update your discussion of NSAIDs and the
17 A. Yes, I see that sentence.	17 development of ovarian cancer? Did you
18 Q. Are you aware that Trabert	18 attempt to update your research on that
19 published another study in 2019 titled	19 topic?
20 Analgesic Use in Ovarian Cancer Risk: An 12:28	20 ATTORNEY O'DELL: Objection 12:30
21 Analysis in the Ovarian Cancer Cohort	21 THE WITNESS: I attempted to
22 Consortium?	22 ATTORNEY O'DELL: Excuse me.
	3
24 then no.	
25 Q. When you wrote this report, did you 12:28	1
Page 155	Page 157  1 update my research throughout the
1 do research to update your paragraph about 2 NSAIDs and ovarian cancer?	
	2 report.
3 A. Did I do research to update the	3 BY ATTORNEY DAVIDSON:
4 report I'm just rereading your question.	4 Q. So do you know why you didn't
5 Q. The realtime doesn't often 12:29	5 identify and cite the later paper by Trabert 12:30
6 accurately transcribe questions.	6 on the same topic?
7 A. So not specific I did not	7 ATTORNEY O'DELL: Object to the
8 specifically look at NSAIDs as they relate	8 form.
9 to ovarian cancer	9 THE WITNESS: No, I don't have an
10 Q. You did not attempt to update the 12:29	10 answer at the moment. 12:31
11 research for this section of your report	11 BY ATTORNEY DAVIDSON:
12 that we're looking at on page 13; is that	12 Q. Okay. Is it possible that the
13 correct?	13 reason you don't cite the updated Trabert
14 ATTORNEY O'DELL: Objection to the	14 paper is that they found no decrease in
15 form. Your question related to 12:29	15 ovarian cancer risk with the use of 12:31
16 Trabert, not this whole page of the	16 anti-inflammatories?
17 report.	17 ATTORNEY O'DELL: Objection to the
18 BY ATTORNEY DAVIDSON:	18 form.
19 Q. Dr. Levy?	19 THE WITNESS: Sorry. You're
20 A. Yes. 12:29	20 saying that they found no decrease in 12:31
21 ATTORNEY O'DELL: Objection to	21 ovarian cancer risk with the use of
22 form.	22 anti-inflammatories?
23 BY ATTORNEY DAVIDSON:	23 BY ATTORNEY DAVIDSON:
24 Q. Did you do research to update this	24 Q. Is that perhaps the reason why you
25 paragraph of your report in which you 12:29	25 chose 12:31
ranging of jost report in which jou	12.51

Page 158	Page 160
A. No. 1 chicken or the egg question. Are you	ruge 100
Q not to cite the later paper?  2 measuring the final effects of that,	
A. No, certainly not. 3 meaning the final cellular changes, or	
Q. Okay. Good to hear.  4 are you measuring the initial	
A. As I think the last paragraph on 12:31 5 transcriptional response to a 12:34	
page 13 I think alludes to having a balanced 6 pro-oxidant state? It depends. These	
discussion in the report. 7 are reasonably complex pathways with	
Q. Do you know how changes in levels 8 pro- and antioxidant systems within	
of mRNA would indicate an increased 9 the cells. It would also depend on	
pro-oxidant state in a cell? 12:32 10 the cell type as to how you'd measure 12:34	
A. How changes in levels of mRNA would  11 a pro-oxidant state. There isn't an	
ndicate a pro-oxidant state? 12 answer.	
Q. Uh-huh. 13 BY ATTORNEY DAVIDSON:	
A. Certainly. 14 Q. In Fletcher 2019, how did they	
Q. Can you explain? 12:32 15 observe or measure an increased pro-oxidant 12:32	34
A. You'd have to be specific of which  16 state?	
mRNA to indicate 17 A. Again, I'd have to look at the	
Q. Do you 18 paper to give you an accurate answer.	
A. So you have it's just part of  19 ATTORNEY DAVIDSON: Let's mark it.	
the central dogma of biology. There can be 12:32 20 Are we up to 5? 12:34	
a cellular influence, whether it be 21 THE CERTIFIED STENOGRAPHER: 5.	
pro-oxidant, other insults, et cetera, 22 (Discussion off the record.)	
riggers a regulatory change in the nucleus 23 (Exhibit Number 5 was marked for	
which results in transcription of RNA of 24 identification.)	
	2:36
	Page 161
component, which then translates to final 1 mark Fletcher as the next exhibit?	
proteins which end up being the effector 2 ATTORNEY DAVIDSON: We marked	it
molecules. 3 as Exhibit 5.	
There are nuances there, of course,  4 ATTORNEY O'DELL: Okay. It's	
hat RNAs can act in a more direct fashion, 12:33 5 there in the chat. If you need to 12:36	
out you specifically asked mRNA being the 6 look at it, Dr. Levy, you can download	
protein coding RNAs. So depending on which 7 it.	
nRNAs are up or down regulated could 8 THE WITNESS: Got it.	
ndicate a specific cellular state. That is  9 BY ATTORNEY DAVIDSON:	
why they accept it as a profiling mechanism 12:33 10 Q. Doctor, do you remember the pending	12:37
o characterize cellular states under any  11 question?	
wide variety of conditions. 12 A. I have the paper open now, if you	
Q. How would you observe a pro-oxidant 13 don't mind restating.	
state? 14 Q. I just want to make sure you know	
A. Again, it would depend on the 12:33 15 there's a pending question. 12:37	
otality of whatever the what the 16 A. If you can state it again.	
specific question being asked and what the 17 ATTORNEY DAVIDSON: Let's go off	•
experimental system is. 18 (Recess taken from 12:39 p.m.	
Q. How would you measure it? 19 12:39 p.m.)	
ATTORNEY O'DELL: Objection. 12:33 20 (Record read by the Certified 12:39)	)
Asked and answered. 21 Stenographer as follows:	
Asked and answered.	
THE WITNESS: Again, I need more 22 "QUESTION:In Fletcher 2019,	

5.40	5 444
Page 162  1 just had it here. I was looking at	Page 164  1 therefore, reasonable to offer that as
the trying to see the it used	2 a biomarker in the evolving research
they looked at iNOS levels by realtime	
4 PCR and then nitric oxide levels	3 space. 4 BY ATTORNEY DAVIDSON:
5 before and after 72 hours of talc 12:40	
6 treatment. The nitric oxide assays	5 Q. Do you know if ovarian cancer 12:43 6 researchers consider the expression C125 to
7 were specific to NO2 minus and NO3 or	7 be an appropriate way to research ovarian
8 nitric and nitrous oxide.	8 cancer causation?
9 BY ATTORNEY DAVIDSON:	9 ATTORNEY O'DELL: Object to the
10 Q. Is that a proper way to measure an 12:40	10 form. 12:43
11 increased pro-oxidant state?	11 THE WITNESS: I've not
12 A. It's one way to measure.	12 specifically reviewed the causation
13 Q. Are you sure?	13 literature.
14 A. They also looked at expression of	14 ATTORNEY DAVIDSON: Okay. Let's
15 antioxidant enzymes, but your question was 12:41	
16 specific about the increased expression of	16 (Exhibit Number 6 was marked for
17 pro-oxidants.	17 identification.)
18 Q. What's your basis for saying that's	18 BY ATTORNEY DAVIDSON:
19 a proper way to measure increased	19 Q. Before we move on, can I ask you a
20 pro-oxidant state? 12:41	20 question? I just have one more question on 12:44
21 A. I guess I don't have any reason to	21 this paper actually.
22 say it's not a proper way to measure	22 Is the change in gene expression
23 pro-oxidants.	23 levels the same as an altered state of
24 Q. Do you have a reason other than the	24 oxidative stress?
25 fact that it says that in this article to 12:41	25 A. Potentially. 12:44
Page 163	·
1 say it is a proper way to measure it?	1 Q. Explain.
2 ATTORNEY O'DELL: Object to the	2 A. So a change in gene expression
3 form.	3 levels, depending on what genes are changed
4 THE WITNESS: No.	4 in their expression, similar to the CA125
5 BY ATTORNEY DAVIDSON: 12:4	1
6 Q. Okay. Is CA125 approved for early	6 change in oxidative state. It depends on
7 detection of ovarian cancer?	7 what is changed, the magnitude of change.
8 A. I'm not aware of approved. I	8 With any of these discussions of cellular
9 believe it's present in roughly 80 percent	9 states, pro-oxidant, antioxidant, et cetera,
10 on the cell surface. So roughly 80 percent 12:42	10 where you're all discussing in any of these 12:44
11 of ovarian cancers, if I remember the basic	11 papers that there's a methodology used to
12 research on it. I'm not aware of its	12 make that measurement, and generally that
12	
13 approval or regulatory status as an early	13 methodology is either a direct or an
13 approval or regulatory status as an early 14 detection mechanism.	13 methodology is either a direct or an 14 indirect measurement. Using molecular
14 detection mechanism.	14 indirect measurement. Using molecular
<ul> <li>14 detection mechanism.</li> <li>15 Q. Is it an appropriate way to test 12:42</li> </ul>	<ul><li>14 indirect measurement. Using molecular</li><li>15 biology, you can argue it's a more indirect 12:44</li></ul>
<ul> <li>14 detection mechanism.</li> <li>15 Q. Is it an appropriate way to test 12:42</li> <li>16 whether talc initiates ovarian cancer?</li> </ul>	<ul><li>14 indirect measurement. Using molecular</li><li>15 biology, you can argue it's a more indirect 12:44</li><li>16 measurement.</li></ul>
<ul> <li>14 detection mechanism.</li> <li>15 Q. Is it an appropriate way to test 12:42</li> <li>16 whether talc initiates ovarian cancer?</li> <li>17 ATTORNEY O'DELL: Objection to</li> </ul>	<ul> <li>14 indirect measurement. Using molecular</li> <li>15 biology, you can argue it's a more indirect 12:44</li> <li>16 measurement.</li> <li>17 But nonetheless, with appropriate</li> </ul>
<ul> <li>14 detection mechanism.</li> <li>15 Q. Is it an appropriate way to test 12:42</li> <li>16 whether talc initiates ovarian cancer?</li> <li>17 ATTORNEY O'DELL: Objection to</li> <li>18 form.</li> </ul>	<ul> <li>14 indirect measurement. Using molecular</li> <li>15 biology, you can argue it's a more indirect</li> <li>12:44</li> <li>16 measurement.</li> <li>17 But nonetheless, with appropriate</li> <li>18 experimental design and controls, it</li> </ul>
<ul> <li>14 detection mechanism.</li> <li>15 Q. Is it an appropriate way to test 12:42</li> <li>16 whether talc initiates ovarian cancer?</li> <li>17 ATTORNEY O'DELL: Objection to</li> <li>18 form.</li> <li>19 THE WITNESS: It's I would say</li> </ul>	<ul> <li>14 indirect measurement. Using molecular</li> <li>15 biology, you can argue it's a more indirect 12:44</li> <li>16 measurement.</li> <li>17 But nonetheless, with appropriate</li> <li>18 experimental design and controls, it</li> <li>19 would certainly could be a very</li> <li>20 reasonable approach. Again, it's going to 12:45</li> <li>21 be dependent on how the study was designed</li> </ul>
14 detection mechanism. 15 Q. Is it an appropriate way to test 12:42 16 whether talc initiates ovarian cancer? 17 ATTORNEY O'DELL: Objection to 18 form. 19 THE WITNESS: It's I would say 20 it is a potential biomarker as a cell 12:42 21 status readout. But as with many 22 things in biology, it's done by	14 indirect measurement. Using molecular 15 biology, you can argue it's a more indirect 16 measurement. 17 But nonetheless, with appropriate 18 experimental design and controls, it 19 would certainly could be a very 20 reasonable approach. Again, it's going to 12:45 21 be dependent on how the study was designed 22 and how it was executed.
14 detection mechanism. 15 Q. Is it an appropriate way to test 12:42 16 whether talc initiates ovarian cancer? 17 ATTORNEY O'DELL: Objection to 18 form. 19 THE WITNESS: It's I would say 20 it is a potential biomarker as a cell 12:42 21 status readout. But as with many 22 things in biology, it's done by 23 it's early phases for this as a	14 indirect measurement. Using molecular 15 biology, you can argue it's a more indirect 12:44 16 measurement. 17 But nonetheless, with appropriate 18 experimental design and controls, it 19 would certainly could be a very 20 reasonable approach. Again, it's going to 12:45 21 be dependent on how the study was designed 22 and how it was executed. 23 Q. Can you use ELISA to measure
14 detection mechanism. 15 Q. Is it an appropriate way to test 12:42 16 whether talc initiates ovarian cancer? 17 ATTORNEY O'DELL: Objection to 18 form. 19 THE WITNESS: It's I would say 20 it is a potential biomarker as a cell 12:42 21 status readout. But as with many 22 things in biology, it's done by	14 indirect measurement. Using molecular 15 biology, you can argue it's a more indirect 16 measurement. 17 But nonetheless, with appropriate 18 experimental design and controls, it 19 would certainly could be a very 20 reasonable approach. Again, it's going to 12:45 21 be dependent on how the study was designed 22 and how it was executed.

Page 168  1 what the depth of that independent
2 expert is.
3 BY ATTORNEY DAVIDSON:
4 Q. What's your basis for that
5 statement? 12:47
6 A. Standard practice and my experience
7 through my career with colleagues as they
8 disclaim interest in companies and interest
9 in in other consulting activities. For
10 example 12:47
11 Q. When you
12 A it's not uncommon for someone to
13 disclose that they're a Wall Street
14 consultant, but they also do not include in
15 that whether they're on the pro side of a 12:4
16 company or buy side of a company or sell
17 side of a company. It's just it's
18 indicating that there is a potential
19 there are those potential competing
20 interests. 12:48
21 Again, why it's called a
22 declaration of interest. It's not called
23 declaration or a conflict of interest.
24 It's a declaration of interest, of which
25 he's now made that declaration. 12:48
7 Page 169
1 Q. If you're associated with a
2 company, there's no two sides; there's just
3 one company; right?
4 ATTORNEY O'DELL: Object to the
5 form. 12:48
6 THE WITNESS: There are two sides.
7 There's whether or not you are
8 associated with the company in a
9 manner that could influence the
10 research or you're associated with the 12:48
company for any number there's any
12 number of reasons. It very much
depends on the situation. I think
14 it's more the declaration of that
15 interest is the key. 12:48
16 BY ATTORNEY DAVIDSON:
17 Q. Can you point me to any journal
18 that says that, it is declaration of
19 interest procedures?
_
20 A. That says what? 12:48
,
21 Q. You don't have to explain the
21 Q. You don't have to explain the 22 nature of your interest.
21 Q. You don't have to explain the

	Page 170		Dags 172
1	review the journal instructions, but	1	Page 172 question, please?
2	in my recollection, most journals have	$\frac{1}{2}$	ATTORNEY DAVIDSON: Court
3	a threshold at which if you're above	3	
4	that threshold, you make the	4	1
5	declaration. But I've never seen a 12:49	5	Stenographer as follows: 12:51
	declaration. But I ve never seen a 12:49 declaration of interest that states		~ .
6		6	"QUESTION:Are you aware that the authors of Mandarino
7	the magnitude of financial interest in	7	
8	a company or the pro- or anti-position	8	reported that talc by itself,
9	on any issue that, if it's relevant to	9	1
10	the research, it mainly just states 12:49	10	, ,
11	that there is an interest.	11	affect the number of MOSEC cells
	BY ATTORNEY DAVIDSON:	12	
13	Q. You've never seen a declaration	13	3
	that says, for a an expert in litigation,	14	
	which side of the litigation they're an 12:49	15	THE WITNESS: Just let me so 12:51
16	expert for?	16	there's the are you referring to
17	A. No, no. I'm not saying I've never	17	1 6
18	seen that. I've not seen that as a	18	ATTORNEY O'DELL: Can you clarify
19	requirement that it has to be it's up to	19	your question? Dr. Levy asked you.
20	the discretion of the author and what the 12:49	20	BY ATTORNEY DAVIDSON: 12:52
21	journal policies are.	21	Q. Did you not understand my question?
22	Q. How often have you read conflicts	22	A. No. I was asking you to confirm
23	of interest by experts in litigation?	23	the cell type.
24	A. Again, my experience there is	24	Q. Why don't you tell me your
25	limited to this to this case. As we 12:49	25	understanding. 12:52
	Page 171		Page 173
1	talked about earlier, I did not spend a	1	ATTORNEY O'DELL: He's trying to
2	significant amount of time evaluating the	2	answer your question.
3	declaration you know, conflict or	3	THE WITNESS: I'm doing that.
4	declarations of interest through the	4	Just give me a moment.
	literature review; therefore, I don't have a 12:50	5	
	quantitative answer to provide, other than	6	Q. You tell me.
7	it's not something that I routinely pay	7	What kind of cells did they use?
	attention to.	8	•
9	Q. So you don't actually know what	9	explicitly confirm that their abbreviation,
	percentage of study authors who are experts 12:50		the MO, as you said, was indeed macrophages. 12:5:
	in litigation identify which side of the		And yes, they are.
	litigation they're on and which percentage	12	Q. I assume you know what MOSEC cells
	don't; correct?		are because you cited this paper?
14	ATTORNEY O'DELL: Objection to	14	A. Correct.
15	form. 12:50	15	
16	THE WITNESS: No, I do not know.	16	
	BY ATTORNEY DAVIDSON:	17	
			that abbreviation. There are some standard
18	Q. Okay. Let's move on.		and some left standard abbreviations.
19	Are you aware that the authors of		
	Mandarino reported that talc by itself, 12:50	20	• • •
	without the presence of immune cells, did	21	A. Your question was would I be
	not significantly affect the number of MOSEC		surprised that there was
	cells after 72 hours?	23	Q. No, I didn't say anything about
	ATTORNEY O'DELL: Which type of	12/1	being surprised.
<ul><li>24</li><li>25</li></ul>	ATTORNEY O'DELL: Which type of cells? Would you mind repeating the 12:51	25	

Page 174	Page 176
1 Q. Are you aware that the authors	1 BY ATTORNEY DAVIDSON:
2 reported that talc by itself, without the	2 Q. Was that my question?
3 presence of immune cells, did not	3 A. Your question was in the absence of
4 significantly affect the number of MOSEC	4 immune cells.
5 cells after 72 hours? 12:53	5 Q. Uh-huh. 12:56
6 ATTORNEY O'DELL: Object to the	6 A. And I was clarifying which results
7 form.	7 section, to which you said it was a simple
8 THE WITNESS: Again, I'm looking 9 at the paper to understand that	8 answer. So in the effort to try to be 9 thorough, I was either asking for the
9 at the paper to understand that 10 result. 12:54	
10 result. 12:54 11 BY ATTORNEY DAVIDSON:	10 clarification of the specific because in 12:56
	11 my reading, that result would indicate the
	12 answer to your question would seem to be no 13 because E2 is estradiol. It's not a cell
8	
14 MOSEC cells that remain surviving after	14 type.
15 72 hours, based on the GFP positive flow 12:55	15 Q. I'm just ask I'm asking you: Do 12:57
16 cytometry results?	16 you know whether the authors reported that
17 Q. Doctor, I'm asking you a simple	17 talc by itself, without the presence of
18 question. I'm asking you whether the	<ul><li>18 immune cells, did not significantly affect</li><li>19 the number of MOSEC cells after 72 hours?</li></ul>
19 authors reported that talc by itself, 20 without the presence of immune cells, did 12:55	
I	20 A. No. I would need to I would say 12:57 21 I'm not sure. I would need to look at the
21 not significantly affect the number of MOSEC 22 cells after 72 hours.	22 paper in more detail.
	• •
3	<ul><li>Q. If talc did not significantly</li><li>affect the number of MOSEC cells after</li></ul>
7. 6. 7	, ,
Page 175	Page 177
1 clarifying trying to clarify the	1 carcinogenicity or against carcinogenicity?
2 specific results.	2 ATTORNEY O'DELL: Object to the
3 BY ATTORNEY DAVIDSON:	3 form.
4 Q. If you don't know the answer and	4 THE WITNESS: It would depend on
5 can't figure it out on the spot, you can 12:55	5 what the control experiments showed 12:57
6 just say so. 7 ATTORNEY O'DELL: Object to the	6 without the talc.
	7 BY ATTORNEY DAVIDSON:
	8 Q. Can you explain what you mean?
_	9 A. So you're asking a question on
	10 the of the experiment in isolation being 12:58
11 it. 12 ATTORNEY DAVIDSON: It couldn't be	11 that under generally speaking, if the
12 ATTORNEY DAVIDSON: It couldn't be 13 clearer.	12 number of MOSEC cells does not change, what
	13 is that indicative of? That essentially is
14 THE WITNESS: And the reason I was	14 your question. But the I'm not my
asking for the clarification is 12:56 because my reading of the results is	15 reading of this is I'm not sure that the 12:58
, ,	16 number of MOSEC cells is actually the
17 that the proliferation ratio show that	17 variable that's under study in this case.
the combination of talc and E2 allowed a larger proportion of MOSEC cells	18 Q. Are you aware that the authors
	19 ATTORNEY O'DELL: I'm sorry,
20 than either agent alone shown in 12:56	20 Jessica. I'm not sure he's done. 12:58
Figure S3, which is a supplementary figure and, therefore, not in the	21 ATTORNEY DAVIDSON: I thought he
	22 was done.
1 * *	23 BY ATTORNEY DAVIDSON:
24 ///	Q. Are you aware that the authors
25 ///	25 state you did not investigate the 12:58

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1 carcinogenic properties of talc?	1 plausible mechanism of talc contributing to
2 ATTORNEY O'DELL: If you're not	2 inflammatory responses. And in this case,
3 finished with your prior answer,	3 through the use of an in vitro experiment
4 Dr. Levy, you may continue. She did	4 looking at phagocytosis of talc and then
5 not give you an opportunity to respond 12:59	5 what some of those cell interactions are 01:01
6 if you need to.	6 following that.
7 THE WITNESS: In this review,	7 Q. Does this paper show anything about
8 looking at the paper again, the	8 carcinogenesis?
9 carcinogenicity of talc was not the	9 ATTORNEY O'DELL: Objection to the
primary question that was being asked 12:59	10 form. 01:02
11 in this study.	11 THE WITNESS: This paper wasn't
12 BY ATTORNEY DAVIDSON:	designed to show anything about
Q. Is it your testimony that the	13 carcinogenesis. This is more
14 authors don't provide a control?	14 mechanistic paper evaluating one small
15 A. No. That's not what I said. 12:59	15 component that may contribute to the 01:02
16 Q. I didn't understand.	16 underlying mechanisms in a more
What were you saying about control?	17 complex organism or individual.
18 A. You were asking a comparative	18 I think also worth noting in this
19 you asked is it if the MOSEC cells did	paper is that the controls were not no
20 not change number after 72 hours in the 12:59	20 treatment whatsoever. The controls 01:02
21 absence of immune cells, would that	21 used other particulate matter,
22 indicate essentially you were asking:	22 titanium dioxide, concentrated urban
23 Would that indicate that talc did not have	23 air particulates, or diesel exhaust
24 an effect on the MOSEC cells? And my answer	24 particles, and then used that as a
25 was that evaluation would need to be taken 12:59	25 comparison to using relative to 01:02
Page 179	Page 181
1 with the context of appropriate controls to	1 talc particles.
<ul><li>2 evaluate what the actual changes were.</li><li>3 Q. But did</li></ul>	2 BY ATTORNEY DAVIDSON:
	3 Q. Does this paper involve human
4 A. Again, in my reading of these 5 results, this was looking this is a 01:00	4 cells?
6 phagocytic assay, not a carcinogenic assay.	5 A. The MOSEC cells are mirroring; so 01:03
	6 they're mouse. And then the I'd have to
7 Trying to evaluate whether the cells take up	7 look at the methods to confirm that the
<ul><li>8 the foreign particles.</li><li>9 Q. But didn't the authors use a proper</li></ul>	8 macrophages were also so they use
9 Q. But didn't the authors use a proper 10 control? 01:00	9 mirroring cell lines J774 and IC21 and then
	10 some experiments RAW 264.7. These are all 01:03
11 A. So, again, that's I didn't say	11 available cell lines from the American
12 they did or didn't. You asked a question in 13 isolation. I said the answer to that	12 tissue type collection. It looks like these
14 question would have to come with comparison	13 are all mouse cells.
15 to controls. I also explained that they 01:00	14 Q. So the study didn't even consider
<u> </u>	· · · · · · · · · · · · · · · · · · ·
16 to answer your question, you're asking a 17 very general question in the context of a	16 ATTORNEY O'DELL: Object to form.
1 1 VELV PEHELAL QUESTION III THE CONTEXT OF A	
	17 THE WITNESS: It looks like this
18 more complex experiment.	18 study used mouse cells as a model
<ul><li>18 more complex experiment.</li><li>19 Q. So how does this paper support your</li></ul>	18 study used mouse cells as a model 19 system.
18 more complex experiment. 19 Q. So how does this paper support your 20 opinions? 01:00	18 study used mouse cells as a model 19 system. 20 BY ATTORNEY DAVIDSON: 01:04
18 more complex experiment. 19 Q. So how does this paper support your 20 opinions? 01:00 21 A. Which opinions?	18 study used mouse cells as a model 19 system. 20 BY ATTORNEY DAVIDSON: 01:04 21 Q. So I didn't understand what you
18 more complex experiment. 19 Q. So how does this paper support your 20 opinions? 01:00 21 A. Which opinions? 22 Q. Any of your opinions.	18 study used mouse cells as a model 19 system. 20 BY ATTORNEY DAVIDSON: 01:04 21 Q. So I didn't understand what you 22 were saying.
18 more complex experiment. 19 Q. So how does this paper support your 20 opinions? 01:00 21 A. Which opinions? 22 Q. Any of your opinions. 23 A. So specifically this paper is so	18 study used mouse cells as a model 19 system. 20 BY ATTORNEY DAVIDSON: 01:04 21 Q. So I didn't understand what you 22 were saying. 23 You don't think the study has
18 more complex experiment. 19 Q. So how does this paper support your 20 opinions? 01:00 21 A. Which opinions? 22 Q. Any of your opinions.	18 study used mouse cells as a model 19 system. 20 BY ATTORNEY DAVIDSON: 01:04 21 Q. So I didn't understand what you 22 were saying.

Page 182	Page 184  1 between the reaction of the cells
1 Misstates his testimony.	2 under these experimental conditions
2 THE WITNESS: No. I didn't make	3 across those four particulates.
3 that statement at all. 4 BY ATTORNEY DAVIDSON:	4 So asking whether one is an
	5 appropriate control over the other, 01:06
5 Q. Is titanium a proper control or 01:04	6 that's not that's not how this
6 not?	7 study that's not what this study
7 A. So the study was examining the	8 was designed to evaluate. It was
8 ability of cells to phagocytize particulate 9 matter, of which there was at least four	9 designed to evaluate: It was
	designed to evaluate. Is there a difference between those four? 01:07
10 that I mentioned. Some from air particles, 01:04	11 BY ATTORNEY DAVIDSON:
11 which appear to be defined purely as their	12 Q. How can we tell whether the effects
12 source, titanium dioxide as one and then	13 were specific to tale?
13 talc as another. 14 I did not recall or do not	14 ATTORNEY O'DELL: Object to the
	15 form. 01:07
15 recall seeing in the methods even a further 01:05	16 THE WITNESS: Sorry. Were
<ul><li>16 description of the specific components of</li><li>17 the talc, whether it was pure talc or it was</li></ul>	17 specific to tell if there's a
•	18 difference?
18 talc that was measured for other potential 19 contribution such as asbestos or other	19 BY ATTORNEY DAVIDSON:
20 material. I didn't see that noted. 01:05	20 Q. To talc. 01:07
21 Q. Dr. Levy, can you try to answer my	21 A. Oh, to talc. Well, to talc is what
22 questions so we can get home tonight.	22 was tested. Do you mean which component of
23 My question was: Is titanium	23 tale? I think they make reference that
24 dioxide a proper control?	24 the that this was a modern sample of
25 ATTORNEY O'DELL: Objection to the 01:05	25 talc. And they state in the introduction 01:07
	•
Page 183  1 commentary. The question was asked	Page 185  1 that there's an assumption that it's thought
2 and answered.	2 to be asbestos free, but no notation was
3 THE WITNESS: As a control	3 made whether that was confirmed or not.
4 particle for a phagocytic assay, it	4 So if your question is, was it
5 appears to be an appropriate control. 01:05	5 specific to talc versus components of talc, 01:08
6 BY ATTORNEY DAVIDSON:	6 that wasn't that wasn't part of this
7 Q. If there's evidence that titanium	7 experimental design. This was testing the
8 dioxide induces changes, would that make it	8 specific sample of talc they used under the
9 an improper control?	9 experimental conditions as described.
10 ATTORNEY O'DELL: Objection to 01:06	<u> </u>
11 form.	11 In the method to talc that was used in this
12 THE WITNESS: Induces what kind of	12 study, was obtained via JT Baker with a
13 changes? Any changes? It may or may	13 specific batch notation and was certified as
14 not be. It may be a if all of the	14 asbestos free.
particles have the same effect, then 01:06	15 Q. Are you looking at the paper on a 01:08
you conclude that the phagocytic	16 computer screen?
process and the influence of estradiol	A. I'm looking at the paper as it was
18 is the same regardless of particulate	18 provided as the exhibit.
19 matter. The question in the study	19 Q. I see. In the chat?
20 isn't: Is any one of is 01:06	20 A. Correct. They performed some 01:09
21 concentrated urban air or diesel	21 controls to have the they filtered the
22 exhaust particles an appropriate	22 talc through a 30 micron nylon mesh,
23 control, or is titanium dioxide an	23 presumably to avoid and they note that
24 appropriate control to talc? The	24 they did not use any commercial talc
25 question is: Is there a difference 01:06	25 products as the talc source. 01:09

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1 Q. Did I have a question pending?	1 Q. And changes in gene expression are
2 A. You had asked about the talc.	2 different from mutations?
3 Q. My question is simple.	3 ATTORNEY O'DELL: Objection.
4 Is it your opinion that this study	4 Asked and answered.
5 can tell us whether the facts found are 01:09	5 THE WITNESS: Well, I think 01:11
	6 important to clarify. Yes, changes in
6 specific to talc as opposed to other types	
7 of particles?	<ul> <li>7 gene expression are absolutely</li> <li>8 different than mutations. They're in</li> </ul>
8 ATTORNEY O'DELL: Object to the	·
9 form. Asked and answered.	9 two separate biological processes.
10 THE WITNESS: Given my comments 01:10	One can impact the other certainly, 01:12
about talc, in this study that was	but they are not the same.
12 studying the ability of these cells to	12 BY ATTORNEY DAVIDSON:
phagocytize talc, given that the	Q. And Mandarino studied gene
authors went to lengths to use the	14 expression?
15 talc, as I just described, and its 01:10	15 A. No. The primary I think the 01:12
source and indicating it was certified	16 primary assay they were using was GFP
as asbestos free, it would appear to	17 expression in the MOSEC cells.
me in reviewing this paper that this	18 Q. Okay. What's the difference
19 was specific to talc.	19 between neoplastic transformation and
20 BY ATTORNEY DAVIDSON: 01:10	20 malignant transformation? You mentioned 01:12
21 Q. We're having a misunderstanding.	21 earlier that they differ. Can you explain?
I mean, does this study tell us	22 A. Well, I was clarifying if you've
23 whether the effects found were specific to	23 considered those equal.
24 talc, whatever its components, as opposed to	Q. I'm asking you. You're the expert.
25 completely other types of substances and 01:10	25 I'm certainly not. 01:12
Page 187	Page 189
1 particles?	1 ATTORNEY O'DELL: Objection.
2 ATTORNEY O'DELL: Object to the	2 THE WITNESS: Yeah, I was
3 form.	3 asking I asked you that question to
4 THE WITNESS: I'm not trying to be	4 clarify the meaning behind your
5 obtuse about this, but you're the 01:10	5 question at the time. 01:12
6 study specifically compared talc to	6 BY ATTORNEY DAVIDSON:
7 titanium dioxide to two other	7 Q. Okay. So now I'm asking you the
8 particulate sources provided by the	8 question.
9 EPA. You're asking: Did they	9 A. Which is? What's the difference
10 specifically look at talc? So the 01:11	10 between malignant transformation and 01:13
answer is yes, they specifically	11 neoplasm?
looked at talc.	12 Q. And neoplastic transformation.
13 If I understand your question	13 A. Depends on the specificity of your
14 correctly, you're asking: Is the	14 question. In either case, it indicates a
15 effects they observed specific to 01:11	15 cellular transformation where generally a 01:13
16 talc? And I guess if I'm	16 loss of growth inhibition. But beyond that,
17 understanding your question correctly,	17 it very much depends on the conditions in
18 I'm not sure how it could not be	18 which it's being asked. And the cell types,
19 specific to talc because that's what	19 et cetera.
20 was tested. 01:11	20 So a malignancy is a more general 01:13
21 BY ATTORNEY DAVIDSON:	21 term. And then a neoplastic transformation
22 Q. Okay. Do you think gene expression	22 is generally more specific.
v. omj. 20 jos mini gene expression	22 - Senerary more specific.
23 is the same as a mutation?	23 But in both cases, they indicate
23 is the same as a mutation? 24 A No. They're fundamentally	But in both cases, they indicate  24 cells with aberrant growth. And that
23 is the same as a mutation? 24 A. No. They're fundamentally 25 different things. 01:11	23 But in both cases, they indicate 24 cells with aberrant growth. And that 25 aberrant growth may be caused by any number 01:13

1	Page 190	-
	of initiating or driver mechanisms as well	1 there are, again, driver and passenger
	as passenger effects that happen as the	2 mutations and changes in gene
	cells evolve.	3 expression and changes in gene
4	Q. Can there be benign neoplastic	4 regulation that drive that, and it's a
5		5 very tumor-type, genetic 01:16
6	A. Certainly. Well, you can have	6 background-type specific.
	benign neoplasms, yes, where you have	7 We understand some aspects of it,
	unregulated cell growth, but that cell	8 but many of those areas are still
	growth may be slow and that cell growth may	9 misunderstood, which is why cancer
	have zero metastatic potential. There are 01:14	10 remains such a challenging space. 01:16
	certain types of renal carcinoma that fall	11 BY ATTORNEY DAVIDSON:
	into this category. There are cysts that	12 Q. How do researchers determine in an
	form in karyocytes in the skin that fall	13 in vitro cell culture whether something has
	into this potential. That's why I say in	14 become cancerous?
	terms of malignant transformation, generally 01:14	
16	we refer to something that has that	16 would be a common experimental design to
17	metastatic potential.	17 conclude that when something becomes
18	Q. Is carcinogenesis caused by changes	18 cancerous. Saying cancerous is not a
19	in gene expression levels or by mutations?	19 descriptor that would be relevant to an in
20	A. Well, carcinogenesis doesn't 01:15	20 vitro assay. 01:17
21	have it's not an either/or. So you	21 ATTORNEY DAVIDSON: Leigh, you
22	something that is carcinogenic could do	sounded like you were about to say
23	either of those things. You could have a	23 something.
24	change in gene expression. You could also	24 ATTORNEY O'DELL: We've been going
25	have a change in gene regulation, such as 01:15	about an hour and ten minutes. It's 01:17
	Page 191	_
	methylation changes in epigenetics. You can	1 1:20 here, right at 1:20. If we can
2	also have the inducement of a mutation	2 go off the record and take a short
3		3 break for lunch.
4		4 (Recess taken from 1:18 p.m. to
5	6	5 1:57 p.m.) 01:57
6	above and beyond neoplastic transformation?	6 BY ATTORNEY DAVIDSON:
7	ATTORNEY O'DELL: Objection to	7 Q. Dr. Levy, on page 15 of your expert
8	form.	8 report amended expert report just so I
9	THE WITNESS: Again, it could be	9 don't have to say the word amended all day,
10	any number of things. But 01:15	10 if I say "expert report," I mean amended. 01:58
11	generally if I answer this in terms	11 You cite ME2021 for your biological
12	of the progression of cancer, as I	12 plausibility opinion. Why do you say the ME
13	said, there are different cancer	13 paper?
14	types. And as we know, there are more	14 A. Did you say page 15? Oh, I see.
15	aggressive and less aggressive forms 01:16	15 I'd have to look at ME. It's in the same 01:58
15	#881688116 #HE 1688 #881688116 1011118 01110	
16	66	16 similar to Mandarino in terms of an immune
	of disease, and then there are	16 similar to Mandarino in terms of an immune 17 modulating effect, as I stated in the
16	of disease, and then there are recurrent disease, et cetera.	
16 17	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key	17 modulating effect, as I stated in the
16 17 18	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key hallmarks of cancer progression is a	17 modulating effect, as I stated in the 18 report. I'd have to remind myself of the
16 17 18 19	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key hallmarks of cancer progression is a transition from aberrant cell growth, 01:16	17 modulating effect, as I stated in the 18 report. I'd have to remind myself of the 19 content of that paper.
16 17 18 19 20	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key hallmarks of cancer progression is a transition from aberrant cell growth, meaning something that is neoplastic	<ul> <li>17 modulating effect, as I stated in the</li> <li>18 report. I'd have to remind myself of the</li> <li>19 content of that paper.</li> <li>20 Q. You don't remember what that paper 01:58</li> </ul>
16 17 18 19 20 21	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key hallmarks of cancer progression is a transition from aberrant cell growth, meaning something that is neoplastic to a that then becomes metastatic	<ul> <li>17 modulating effect, as I stated in the</li> <li>18 report. I'd have to remind myself of the</li> <li>19 content of that paper.</li> <li>20 Q. You don't remember what that paper 01:58</li> <li>21 is about?</li> </ul>
16 17 18 19 20 21 22	of disease, and then there are recurrent disease, et cetera.  The point being is one of the key hallmarks of cancer progression is a transition from aberrant cell growth, meaning something that is neoplastic to a that then becomes metastatic or becomes a non-local disease. It's	<ul> <li>17 modulating effect, as I stated in the</li> <li>18 report. I'd have to remind myself of the</li> <li>19 content of that paper.</li> <li>20 Q. You don't remember what that paper 01:58</li> <li>21 is about?</li> <li>22 ATTORNEY O'DELL: Object to the</li> </ul>

	1
Page 194  1 to look at it. It will just take a	Page 196  1 Q. And the authors
2 second.	2 A. It's a female cell line, but it is
3 BY ATTORNEY DAVIDSON:	3 not an ovarian cell line. It's a macrophage
4 Q. I understand.	4 phagocytic model cell line.
5 Do you remember at all what that 01:59	5 Q. And the authors found that titanium 02:01
6 paper is about, without looking at it?	6 dioxide also leads to gene expression and
7 A. Not off the top of my head, beyond	7 transcription changes in phagocytes; right?
8 what it states in the one sentence.	8 A. They found gene expression changes
9 Q. What does it state in the one	9 in both conditions, but they what they
10 sentence? 01:59	10 they found an enhanced response based on 02:02
11 A. That supporting observations of the	11 talc compared to so yes. The answer to
12 immune modulating effect of talc were made	12 your question is yes, but there was not an
13 by Emi and colleagues in a separate study.	13 equal response.
14 Q. Okay. Let's mark the Emi paper.	14 Q. Is titanium dioxide biologically
15 ATTORNEY DAVIDSON: Noah, what 01:59	15 inert? 02:02
16 number is it?	16 A. Clearly in these results, it would
17 ATTORNEY EPSTEIN: Exhibit 7.	17 indicate it is not inert, meaning it doesn't
18 (Exhibit Number 7 was marked for	18 impart a change. Inert is not necessarily
19 identification.)	19 the same as having a specific effect.
20 BY ATTORNEY DAVIDSON: 01:59	Q. Does this show that talc caused any 02:02
21 Q. We're marking as Exhibit 7,	21 mutations?
22 Transcriptomic and Epigenomic Effects of	22 A. This paper wasn't assaying if it
23 Insoluble Particles on J774	23 caused mutations or not. This paper doesn't
24 Macrophages, by Emi, et al.	24 attempt to answer that question.
25 Can you now tell me how this paper 02:00	25 Q. And it also doesn't tell us 02:02
	-
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<ul><li>1 supports your opinions?</li><li>2 A. Sure. So this I think this</li></ul>	1 anything about carcinogenesis; right? 2 ATTORNEY O'DELL: Object to the
	1
3 paper continues to support the	3 form.
4 proinflammatory and immune modulating	4 THE WITNESS: So, again, the
5 effects of talc particles. In this 02:00	5 purpose of this paper was looking at, 02:02
6 particular paper, they looked at a gene	6 as I think the title reasonably
7 expression readout primarily by using	7 clearly states, looking specifically
8 microarray technology, and they report that	8 at transcriptomic and epigenomic
9 there's a sustainably more prominent gene	9 effects on a specific cell type, the
10 expression change in talc compared to 02:00	10 J774 macrophages. It didn't attempt 02:03
11 titanium dioxide.	11 to examine carcinogenesis. And based
The paper goes on to describe the	on the results of the paper, it also
13 nature of those gene changes in terms of a	did not attempt to assay mutations,
14 pathway and ontology perspective, and then	14 although mainly primarily because the
15 they because of an unexpected result in 02:00	15 technologies used would be insensitive 02:03
16 some of those gene expression changes, they	16 to mutation, for the most part.
17 also looked at DNA methylation profiles	You could argue the bisulfite
18 using a genomewide bisulfite sequencing	18 sequencing may be able to detect
19 technique.	19 mutations, but they did not indicate
20 Q. Does this paper study ovarian 02:01	20 they did that in the analysis section. 02:03
21 cells?	21 BY ATTORNEY DAVIDSON:
22 A. It studies the J774 macrophage.	Q. Can in vitro acids be used to
Q. So that's not ovarian cells; right?	23 determine malignancy?
A. No, it is not. It's a murine cell	24 A. Malignancy with the definition of
25 line. It's a 02:01	25 able to invade away from the site of origin, 02:03
	de die die die die die die die die die d

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1 an in vitro assay can't directly measure	1 A. This one was a somewhat newer study
2 malignancy, but an in vitro assay may be	2 that I had found through the literature
3 able to provide, in detail, markers that are	3 search, and I thought it was a relevant
4 similar to from the mechanistic standpoint	4 study, given that it was looking at
5 to malignancy. 02:04	5 survivorship of ovarian cancer relative to a 02:06
6 You can't prove malignancy with an	6 variety of usages, talc included.
7 in vitro assay, not without taking those	7 Q. Does data on survivorship tell you
8 same cells into xenograph model or some	8 anything about initiation?
9 other common techniques like that. Again,	9 A. Initiation, no, not necessarily.
10 that was not done in this paper. 02:04	10 Or I would say: Does data on survivorship 02:07
11 Q. I think that was a no?	11 explain initiation? No, it does not.
12 ATTORNEY O'DELL: Object to the	12 Q. So this study doesn't tell you
form. His answer was what his answer	13 about the causes of ovarian cancer; correct?
14 was.	14 ATTORNEY O'DELL: Object to the
THE WITNESS: This paper did not 02:04	15 form. 02:07
attempt to study malignancy.	16 THE WITNESS: This study was not
17 BY ATTORNEY DAVIDSON:	17 examining causative. This study was
18 Q. I just want to make clear you agree	purely a survivorship study, meaning
19 that malignancy cannot be demonstrated just	19 inclusion in the study meant you
20 by an in vitro study; correct? 02:05	20 already had the disease. 02:07
21 A. Malignant potential can be	21 BY ATTORNEY DAVIDSON:
22 demonstrated by an in vitro assay, but	Q. So it's not relevant to whether or
23 malignancy cannot be proven in a simple	23 not talc can cause ovarian cancer; correct?
24 single a cell culture simple cell	24 ATTORNEY O'DELL: Object to the
25 culture-based assay. There are in vitro 02:05	25 form. 02:07
D 100	
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1 models that allow malignancy to be measured,	1 THE WITNESS: I found it relevant
<ul><li>1 models that allow malignancy to be measured,</li><li>2 but the systems used in this particular case</li></ul>	<ul><li>THE WITNESS: I found it relevant</li><li>to the subject that I was asked to</li></ul>
<ol> <li>models that allow malignancy to be measured,</li> <li>but the systems used in this particular case</li> <li>are not those.</li> </ol>	THE WITNESS: I found it relevant to the subject that I was asked to provide an opinion around the general
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	Page 202		Page 204
1	litigation alleging that talc caused them to	1	_
	have a worse prognosis after they were	2	
3	already diagnosed with ovarian cancer?	3	•
4	ATTORNEY O'DELL: Object to the	4	1
5	form. 02:09	5	
6		<i>5</i>	
	THE WITNESS: Again, my focus has been limited to the areas that we've	_	
7			BY ATTORNEY DAVIDSON:
8	been discussing around the biological	8	Q. My question was: Can you point to
9	plausibility. I'm not aware of what		a single paper in the body of scientific
10			literature by an ovarian cancer researcher 02:11
	BY ATTORNEY DAVIDSON:		that considers evidence related to the
12	Q. Are you offering an opinion in this		progression of ovarian cancer in
	case that exposure to talc can result in a		determining in assessing potential causes
	worse prognosis for somebody who's diagnosed		or biological mechanisms for the initiation
-		15	of ovarian cancer? 02:11
16	ATTORNEY O'DELL: Objection.	16	3
17	Asked and answered.	17	form. Asked and answered.
18	THE WITNESS: I'm offering an	18	THE WITNESS: So you're asking
19	opinion as to the totality of the	19	three different questions. Is
20	impact of talc throughout the ovarian 02:09	20	there 02:11
21	cancer process when possible. And so	21	BY ATTORNEY DAVIDSON:
22	in the spirit of that literature	22	Q. I'm asking one question.
23	review, I found this study as, and at	23	ATTORNEY O'DELL: Let him finish,
24	least in my searches, as one of the	24	
25	few or only survivorship studies that 02:10	25	•
	Page 203		Page 20
1	also looked at talc in addition to a	1	question, you're asking about
2	number of other inflammatory-related	2	progression, initiation, and I think
3	exposures. So, therefore, given the	3	you also said one other which
4	nature of my previous report and	4	progression, initiation, and
5	amended report, found this study to be 02:10	5	survivorship. Those are they're 02:12
6	relevant to be included. But it	6	_
7	doesn't I'm not drawing any	7	
8	specific conclusions from this study	8	
9	and this study alone.	9	
	BY ATTORNEY DAVIDSON: 02:10		1
11	Q. Can you point to a single paper in	11	•
	the entire body of scientific literature by	12	
	an ovarian cancer researcher that relies on	13	1 1
	research regarding ovarian cancer	14	
	progression to address potential causes of 02:10	15	
	ovarian cancer?		BY ATTORNEY DAVIDSON:
17		17	
	ATTORNEY O'DELL: Objection to the		. 1
18	form.		eight hours. I can ask this question as
19	THE WITNESS: Most commonly,	19	, , , , , , , , , , , , , , , , , , ,
20	studies of progression and studies of 02:10	20	• 1
21	causation would generally be done	21	
22	independent from each other. Although		research related to the progression of
23	certainly as is the case in other		ovarian cancer and factors that affect the
24	areas perhaps of more common		progression of ovarian cancer in attempting
25	conditions, when you can link 02:11	25	to understand what causes or leads to the 02:12

Page 206	Page 208
1 initiation of ovarian cancer?	1 assessed them with a cell transformation
2 ATTORNEY O'DELL: Objection to the	2 assay.
3 form.	3 Q. That's my question.
4 That's a different question, but	Which cell transformation assay did
5 go ahead. 02:13	5 they use? 02:17
6 THE WITNESS: So I cannot point	6 A. That's what I'm looking at.
you to one today, but that would be	7 They used a it looks like
8 something that would be I recall	8 basically an agarose invasion assay, it
9 some I have seen some body of	9 appears, where they cultured the cells on a
10 literature, perhaps not in ovarian 02:13	10 base agarose mix. 02:18
11 cancer which is why I would need to	11 Q. Are you looking at page 152?
12 take a novel or take another	12 A. Yes.
look that factors that influence	13 Q. The assay they used was 14 Abcam-235698; correct?
progression are often looked at in the	•
15 context of initiation as well; 02:13	15 A. I'm not seeing where 02:19 16 Q. Abcam, A-b-c-a-m, that's the kit
however, I cannot point you to a paper	, ,
in ovarian cancer by an ovarian cancer	<ul><li>17 they used; right?</li><li>18 A. Yes, it appears. So describing the</li></ul>
18 researcher that connects initiation to	, 11
<ul><li>19 progression.</li><li>20 BY ATTORNEY DAVIDSON: 02:13</li></ul>	<ul><li>19 kit information sheet, yeah.</li><li>20 O. Are you familiar with that kit? 02:19</li></ul>
	• •
Q. My question is about ovarian	21 A. Not specifically, no.
22 cancer, though.	22 Q. Have you reviewed the kit
23 A. Correct.	<ul><li>23 information sheet?</li><li>24 A. I have not reviewed the kit</li></ul>
Q. And you can't point to anything;	
25 right? 02:13	25 information sheet. 02:19
Page 207  1 ATTORNEY O'DELL: Object to the	Page 209  1 Q. Do you know if that kit information
2 form.	2 sheet says that the assay is validated for
3 THE WITNESS: No, I can't.	3 the purpose of showing malignant
4 BY ATTORNEY DAVIDSON:	4 transformation?
5 Q. Let's move on. 02:14	5 A. No, I'm not aware if it does say or 02:19
6 ATTORNEY DAVIDSON: Let's mark as	6 doesn't say that. I'd be surprised if it
7 Exhibit 8 Harper 2023.	7 specifically stated that it's designed to do
8 (Exhibit Number 8 was marked for	8 that.
9 identification.)	9 Q. Does it say that it's validated to
,	10 show neoplastic transformation? 02:20
11 Q. I was asking you earlier about the	11 ATTORNEY O'DELL: Are you
12 assay that was used in this paper, and you	12 asking I'm sorry. The question
13 said you had to look at the paper to refresh	13 was: Does it say it's validated? Are
14 your recollection.	14 you talking about
So you've got the paper now. Can 02:16	15 ATTORNEY DAVIDSON: I'll ask the 02:20
16 you tell me	16 question again, Leigh.
17 A. Sorry. It was just opening. Okay.	17 ATTORNEY O'DELL: Thank you.
11. Doily, it was just opening. Okay.	17 MITORIALI ODLLE. Illalik you.
	18 BY ATTORNEY DAVIDSON:
18 It's open now.	18 BY ATTORNEY DAVIDSON:
<ul><li>18 It's open now.</li><li>19 Q. Can you tell me what assay was used</li></ul>	19 Q. Do you know whether this assay is
18 It's open now. 19 Q. Can you tell me what assay was used 20 by the authors of the study? 02:17	<ul><li>19 Q. Do you know whether this assay is</li><li>20 validated to show neoplastic transformation? 02:20</li></ul>
18 It's open now. 19 Q. Can you tell me what assay was used 20 by the authors of the study? 02:17 21 A. Which assay? So they used human	<ul> <li>Q. Do you know whether this assay is</li> <li>validated to show neoplastic transformation? 02:20</li> <li>A. So the assay is meant to show</li> </ul>
18 It's open now. 19 Q. Can you tell me what assay was used 20 by the authors of the study? 02:17 21 A. Which assay? So they used human 22 primary ovarian epithelial cells as well as	<ul> <li>Q. Do you know whether this assay is</li> <li>validated to show neoplastic transformation? 02:20</li> <li>A. So the assay is meant to show</li> <li>cellular transformation.</li> </ul>
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D 210	P 212
Page 210  1 A. I've not specifically looked at	Page 212 1 the Abcam assay saying it's more stable,
2 the if the manufacturer gave any	2 faster, and more sensitive than the
3 indication of any validation for any	3 traditional soft agar assay. Both of those
4 purposes. As an RUO product, I would expect	4 kits or both of those procedures are
5 then that they likely do not provide any 02:21	5 meant to mimic malignant transformation in 02:23
6 validation information for any given	6 an in vitro system to allow different
7 purpose, other than a product description.	7 experimental conditions to be compared.
8 Q. And you and I agree that cell	8 In the case of this paper,
9 transformation is not the same as malignant	9 comparing talc and titanium dioxide and
10 transformation; right? 02:21	
11 A. Cellular transformation is not the	10 perhaps other conditions, I'd have to look 02:23
12 same as malignant transformation; however,	11 at the methods.
13 these agarose-based or agar-based assays,	12 Q. So is it your testimony that 13 ATTORNEY O'DELL: Excuse me.
,	
14 this kit as well as earlier referenced in	Jessica, I apologize. I'm not sure
15 the paper, the soft agar assay, which is a 02:21	15 Dr. Levy was finished. But if you 02:24
16 longer standing, more traditional method,	16 are?
17 those are meant to be in vitro mimics that 18 more closely allow malignant transformation	17 THE WITNESS: I'm finished.
	18 ATTORNEY O'DELL: Sorry. Go
19 potential to be measured because the cells 20 have to move through the agar, which is 02:21	19 ahead. 20 ATTORNEY DAVIDSON: I think he was 02:24
E E ,	
21 more again, it's a model system to	21 finished.
22 evaluate and compare neoplastic to	22 BY ATTORNEY DAVIDSON:
23 potentially malignant cells.	Q. Is it your testimony today that
Importantly, these assays as a	24 it's accurate, based on the results of this
25 standalone would not necessarily prove the 02:22	25 assay, to say: To use the phrase induces 02:24
Page 211	Page 213
1 ability of any given cell to be malignant.	1 malignant transformation in normal human
2 But the point of the paper is to show the	2 primary ovarian epithelial cells?
3 relative differences in this assay of	That's my question.
4 different treatment conditions.	4 ATTORNEY O'DELL: Object to the
5 Q. Is it your testimony that it would 02:22	5 form. 02:24
6 be accurate to use an Ab-235698 assay, and	6 THE WITNESS: Based on the
7 based on the results of that assay, to say	7 findings in the paper with the assays
8 that something induces malignant	8 that were produced and the purposes
9 transformation?	9 behind the assays, the authors have
10 ATTORNEY O'DELL: Object to the 02:22	10 drawn the conclusion as stated in the 02:24
11 form.	11 title.
12 THE WITNESS: So this particular	12 BY ATTORNEY DAVIDSON:
13 kit the kit version of this as well	13 Q. I'm aware. I'm asking you if
14 as the soft agar assay also mentioned	14 that's accurate.
15 in the paper is meant to be an in 02:22	15 A. Based on what's shown in the paper 02:24
16 vitro model system for malignant	16 and the results shown, it appears that
17 transformation.	17 they're drawing a reasonably accurate
18 BY ATTORNEY DAVIDSON:	18 conclusion, again, based on the information
Q. I thought you said you're not	19 here in this paper.
20 familiar with this kit? 02:23	20 Q. So you think without having 02:25
21 A. I'm describing the way it's	21 actually researched this assay, that this
22 presented in the paper, which is the kit	22 assay suffices to show malignant
23 information sheet, as you just described,	23 transformation?
24 with that product number, and then earlier	24 ATTORNEY O'DELL: Object to the
25 in that same column indicating why they used 02:23	25 form. 02:25

	Page 214		Page 216
1	THE WITNESS: So as close to being	1	understand the intent of the assay.
2	able to do so in an in vitro model		•
3	system, yes.	3	Q. How do scientists normally assess
		_	whether cells are malignant?
5	Q. I thought you testified earlier 02:25	5	A. I would say the most rigorous, in 02:27
1	that in an in vitro model system, you can't		my opinion, would be through xenograph
7	show malignant transformation?		models, meaning the implantation of human
8	A. No. I testified earlier that you		cells, whether they be treated or from
9	can't prove malignant transformation that		primary tumors, into mouse models;
	would occur in a disease state. But, again, 02:25		therefore, the tumor initiation progression 02:27
1	in a model system, you're modeling as		and the metastatic potential can all be
	closely as possible a biological process		viewed in the context of an entire organism.
1	under study, generally something that you	13	But as I mentioned earlier, there
1	can't do either in a live animal or in a	_	are various levels of sophistication for in
1			
1	person. You develop conditions that are 02:25 reasonably close or as close as possible,		vitro assays to look at cellular invasion. 02:28  I would say there's a rich body of
1	and then you have to draw conclusions from		literature that if a cell, when put on
	•		
1	there. There would be an iterative process		either another monolayer or
1	to either replicate those studies independently, typical of the scientific 02:26		three-dimensional support where that cell
1	1 3 7 3 1		then invades, either directly or via 02:28
	method, or determine extend those studies		cellular processes, that's considered a
	to determine if the markers and other things		measure of malignant transformation or
	that are observed are, in fact, indicative		malignant potential.
	of malignant transformation.	24	Depending on the experimental
25	Q. You're taking it on faith from 02:26	23	design and the interpretation, the authors 02:28
	Page 215		Page 217
1	these authors that this assay is capable of		draw conclusions as to does that reach a
	doing that?		does that suffice for what they would
3	ATTORNEY O'DELL: Object to the		consider as malignant transformation.
4	form.	4	Q. When you say "what they would
5	THE WITNESS: As in any scientific 02:26		consider as malignant transformation," isn't 02:28
6	literature, the body of that		malignant transformation an objective
7	literature is taken on faith and then		scientific term?
8	allowed, by evaluation of readers and	8	A. Correct. It means the cell is
9	reviewers and others, to as to how		transformed to allow or support growth away
10	they weight the evidence that's 02:26		from the initial site in terms of cancer 02:28
11	observed in the paper.		biology. And these in vitro assays, the bar
1	BY ATTORNEY DAVIDSON:		that these authors have set is that if those
13	Q. In order to weight the evidence in		same cells are able to invade through an
1	the paper, you need to understand the		agarose-based assay, that is indicative of
	methodologies used; right? 02:26		that malignant potential and, therefore, 02:29
16	A. Sure. At least in terms of what		they're characterizing it as malignant
1	those methodologies the purposes of those	17	transformation.
18	methodologies and what they're showing.	18	Q. When you say "they're
19	Q. So in order to really understand	19	characterizing it as a malignant
1/	whether the methodology here was proper, 02:27	20	transformation," is a malignant 02:29
	FF,		
20	you'd need to understand exactly what this	21	transformation a subjective term that can be
20 21			transformation a subjective term that can be characterized in different ways by different
20 21	you'd need to understand exactly what this	22	
20 21 22	you'd need to understand exactly what this assay was, wouldn't you?	22	characterized in different ways by different

1	Page 218 THE WITNESS: Malignant	1 -	Page 220 measured the assay after a week. They did
$\frac{1}{2}$	<u> </u>		·
	transformation, as I've said a few		not perform time points to at least at a
3	times, is indicates that a cell is		glance here, I don't believe they performed
4	able to grow away from its primary		time points to measure the timing of that
5	site. So when the authors are calling 02:29		transformation or whether it was different 02:32
6	something that is you have the		over time. They only report the results on
7	transformation event, meaning the cell		a percentage of transformed cells at dose,
8	has the potential to do that, and then		not time, and that was after six days.
9	you have the metastatic event where		There was no timing information as far as
10	the cell actually does it becomes 02:29		the timing of that transformation that was 02:32
11	malignant or becomes metastatic; it		reported in the paper. Indicating that that
12	actually moves away. So it's		transformation would have occurred at any
13	semantics to say: Does transformation		point from the initiation of the assay to
14	mean only the potential to invade into	_	just before measurement, but there was no
15	a substrate or into a tissue area, or 02:30		investigation done as to at least not 02:32
16	is it malignant transformation when		reported that I see.
17	you evaluate it after the fact because	17	I'm looking at the results. They
18	it's been detected at a remote site,		mainly based this based on colony formation.
19	say, in a lymph node or others if we	19	Q. I just want to make sure I
20	look at this in a whole person. 02:30		understand your testimony. 02:33
	BY ATTORNEY DAVIDSON:	21	Your testimony is that the authors
22	Q. Does this study show anything about		of this paper claim that they found
	invading?		malignant transformation after six to eight
24	A. That is the purpose of that agar		days?
23	assay. That's to mimic the cells invading 02:30	25	A. They performed treatments of the 02:33
1	Page 219 into a substrate. That's the nature of that	1 /	Page 221 cells with talcum powder or titanium dioxide
	assay. Growing in that three dimensional		for 72 hours and then placed the cells into
$\frac{2}{3}$	space. Most cells are inhibited by contact		the agar assay for six days and then
	inhibition. One of the hallmarks of		measured the colormetric assay, which is
	malignant transformation is you lose that 02:30		part of the Abcam kit, as well as the colony 02:34
1	contact inhibition. But that can also be	-	formation and compared the control, which
1	that neoplastic transformation, a benign		was the titanium dioxide to the talc
1	transformation where the cell's just		treatment under different cell lines. And
1	aberrantly growing.		then followed that up with some
10	So, generally, you look more at the 02:30		immunohistochemistry on sections of those 02:34
	invasion, meaning that the cells are		colonies for two specific markers.
	actually invading through a substrate.	12	Q. What's anchorage-independent
13	This agar assay is meant to mimic,		growth?
14		13 §	ATTORNEY O'DELL: We didn't hear
1	does not have all of the components of a 02:31	15	that clearly, Jessica. Would you 02:35
1	biological setting. And it certainly	16	please repeat the question?
17			BY ATTORNEY DAVIDSON:
18	Q. How long did it take these cells to	18	Q. What is anchorage-independent
	transform in this study?		growth?
20	A. They did a I thought I saw the 02:31	20	A. Cells that are able to grow without 02:35
	data. Six to eight days. Incubated six to		being anchored to a surface or a matrix.
	eight days? Yeah. About a week, roughly.	22	Q. Is anchorage-independent growth
23	Q. It took a week for the malignant		sufficient evidence to show malignant
1	transformation?		transformation?
25	A. No. They performed they 02:31	25	A. Potentially. It's certainly 02:35
	71. 140. They performed they 02.31	23	71. 1 otolitally. It's certainly 02.33

			5 20
1	Page 222 it's certainly a marker of	1	Page 224 can happen very rapidly. It can
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. I understand you're saying it's a	2	
	marker of, but is it sufficient to show	3	
	malignancy?	4	
5	A. It would depend on the cell line, 02:35	5	•
	and it would depend on that would require	6	
7	a different experiment or a further	7	•
8	-	8	
9	Q. Can you look at Figure 4.	9	
10	A. Uh-huh. 02:36		BY ATTORNEY DAVIDSON: 02:39
11	Q. Where does it say in Figure 4 that	11	Q. So you think regular cells could
1	the staining was done after six to eight		transform to malignant cells after they're
	days?		treated in less than 72 hours?
14	•	14	
	staining in Figure 4 was done from the 02:36		Certainly it did. Again, it depends on the 02:39
	oh, I see.		mechanism of those transformative events.
17	So looking at the method so my	17	Q. Can you point me to any example of
	first reading of this was that they used		a study in which it was found that cells
	the essentially fixed and sectioned the		were converted into malignant cells in less
	colonies from the agar assay, but in reading 02:37		than 72 hours? 02:39
	this now, it appears they performed	21	ATTORNEY O'DELL: Object to the
	immunohistochemistry on the normal human	22	
	primary epithelial cells, the ovarian	23	
	epithelial cells, before treatment and after	24	_
1	treatment for 72 hours. They reported 02:37	25	designed and exactly how it was 02:40
-	Page 223		Page 225
1	changes in staining with P53 and KI67.	1	
2	So the agar assay was done for six	$\frac{1}{2}$	
	days. It looks like the secondary assay	3	1 0
	shown in Figure 4 was a treatment for	4	
	72 hours. 02:37	5	
6	Q. Is 72 hours sufficient time to	6	
1	convert normal cells into malignant cells?	7	
8	A. Under these specific experimental	8	• 0
	conditions and without those specific time	9	
	points done, we can't say. 02:38	10	1 0
11	Q. Have you ever seen another paper in	11	
	your entire scientific career in which	12	-
	normal cells were turned into malignant	13	•
	cells in 72 hours?		BY ATTORNEY DAVIDSON:
15	ATTORNEY O'DELL: Object to the 02:38	15	
16	form.	16	
17	THE WITNESS: So the timing I'm	17	•
18	thinking through different literature	18	
19	or papers or studies that I recall.	19	1 5
20	I'd have to consider it and give that 02:38	$\frac{1}{20}$	
21	some thought. I cannot think of a	$\begin{vmatrix} 20\\21 \end{vmatrix}$	
22	reason why 72 hours, more or less,	$\begin{vmatrix} 21\\22\end{vmatrix}$	1 0
23	would have any reasoning behind the	23	
24	it really depends on the mechanism of	$\frac{23}{24}$	*
25	transformation in those events. It 02:39		BY ATTORNEY O'DELL:
	transformation in those events. It U2.37		ZIIIIOIUIZI O DELLE

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1 Q. So you can't	1 ATTORNEY O'DELL: Objection to the
2 ATTORNEY O'DELL: I'm sorry. He	form. Asked and answered.
3 wasn't finished.	THE WITNESS: I'd have to get back
4 BY ATTORNEY DAVIDSON:	4 to you on that.
5 Q. You just always seem like you're 02:40	5 BY ATTORNEY DAVIDSON: 02:42
6 stopping, and then you keep going.	6 Q. Okay. I just want to clarify;
7 ATTORNEY O'DELL: You may	7 right? These authors didn't say in their
8 continue.	8 title: Biomarkers of potential malignant
9 THE WITNESS: No, I can't point	9 transformation were shown in our paper.
10 you to a study where from cell 02:40	Just to look again, they said: 02:43
11 treatment through proof of metastatic	11 Talc powder induces malignant transformation
or malignant potential occurred in	12 in normal human primary ovarian epithelial
13 72 hours or less.	13 cells; correct?
14 BY ATTORNEY DAVIDSON:	14 A. Your reading of the title is
15 Q. So this is the only paper you've 02:41	15 correct. 02:44
16 ever read in your entire experience as a	16 Q. And you take no issue with that
17 scientist that claimed to demonstrate	17 title?
18 malignant transformation within 72 hours of	18 A. Do I take issue with the title?
19 treatment; correct?	19 No, I don't take issue with the title.
20 ATTORNEY O'DELL: Object to the 02:41	Q. And let's go to the conclusion. 02:44
21 form.	21 A. Okay. Page 156.
THE WITNESS: No, that's not	22 Q. This study clearly demonstrates
23 correct. What this study is showing	23 that talcum powder exposure induced
24 is the markers for having that	24 malignant transformation of normal ovarian
25 transformation. I would be confident 02:41	25 cells and culture, which adds to the strong 02:44
Page 227	Page 229
1 that there's other studies that used	1 evidence of causal relationship between
2 other markers for cellular	2 genital use of talcum powder and ovarian
3 transformation that occurred in time	3 cancer.
4 frames at or less than 72 hours.	4 Do you agree with the authors that
5 Again, I would have to specifically 02:41	5 this study clearly demonstrates there's a 02:44
6 review for those types of studies.	6 typo there that talcum powder exposure
7 But my confidence comes from,	7 induced malignant transformation of normal
8 again, mechanistically the treatment	8 ovarian cells in culture?
9 or methodology to perturb a cell to	9 ATTORNEY O'DELL: Object to the
10 allow it to undergo a malignant 02:41	10 form. 02:44
11 transformation can happen on a very	11 THE WITNESS: As with any
12 rapid time course. Some examples of	scientific study, as a scientist, I
those rapid time courses would be done	would not use that one sentence or
with radiation or done with severe	that brief paragraph. What I would
mutagenesis or done with other 02:42	15 agree with is the totality of the 02:45
treatments. The 72-hour window is not	paragraph, if you include the next
17 a again, there's nothing	17 sentence that starts with: Therefore,
18 technically or mechanistically that	18 we consider that future studies should
10 would require that time from to be	19 aim to evaluate this finding utilizing
19 would require that time frame to be	20 onimal models And 02:45
20 longer or shorter. 02:42	20 animal models. And 02:45
20 longer or shorter. 02:42 21 BY ATTORNEY DAVIDSON:	21 BY ATTORNEY DAVIDSON:
<ul> <li>20 longer or shorter. 02:42</li> <li>21 BY ATTORNEY DAVIDSON:</li> <li>22 Q. I'm just asking you for a paper.</li> </ul>	<ul><li>21 BY ATTORNEY DAVIDSON:</li><li>22 Q. Does this study</li></ul>
<ul> <li>20 longer or shorter. 02:42</li> <li>21 BY ATTORNEY DAVIDSON:</li> <li>22 Q. I'm just asking you for a paper.</li> <li>23 Name one paper you've read where malignant</li> </ul>	<ul> <li>21 BY ATTORNEY DAVIDSON:</li> <li>22 Q. Does this study</li> <li>23 ATTORNEY O'DELL: Excuse me. He's</li> </ul>
<ul> <li>20 longer or shorter. 02:42</li> <li>21 BY ATTORNEY DAVIDSON:</li> <li>22 Q. I'm just asking you for a paper.</li> </ul>	<ul><li>21 BY ATTORNEY DAVIDSON:</li><li>22 Q. Does this study</li></ul>

	P 220		D 222
1	Page 230 sentence of the conclusions. And so I	1	Page 232 THE WITNESS: This paper shows a
2	would consider the conclusions and the	2	significant difference in cells
3	totality of the work rather than	3	treated with talc and not talc and
4	whether or not one sentence is an	4	
5	accurate representation of the work. 02:45	5	validate that from a malignant 02:47
6	_	6	transformation perspective.
7	Q. That's great, but that's not my	7	BY ATTORNEY DAVIDSON:
8	question.	8	Q. I understand.
9	My question is: Do you think this	9	A. Your question doesn't have a
	study clearly demonstrates that talcum 02:45	10	yes-or-no answer. 02:47
	powder exposure induced malignant	11	Q. My question doesn't have a yes or
12	transformation of normal ovarian cells?	12	no answer? You can't tell me whether this
13	A. This study shows data supporting		paper clearly demonstrates that talcum
	that the cells may have been malignantly	l .	powder exposure induced malignant
	transformed. 02:46		transformation of normal ovarian cells? 02:47
16	Q. But it does not clearly demonstrate	16	Does it or doesn't it?
	that talcum powder exposure induced	17	A. Based on the data in the paper and
1	malignant transformation of normal ovarian		what the authors claim, that is their
	cells; correct?	l .	conclusion.
20	<i>C</i> ,	20	Q. Do you believe that this paper 02:47
	authors are saying given that what they defined their definition of malignant	21	•
	transformation in this in vitro model as	22 23	exposure induced malignant transformation?  ATTORNEY O'DELL: Asked and
1	described in the paper, which is where	24	answered.
1	they're drawing this conclusion from, and I 02:46	25	THE WITNESS: Again, in the in 02:47
-	Page 231		Page 233
1	think rightly recognize that further studies	1	vitro model system that was used,
1	have to exist.	2	under the conditions in this paper,
3	So I can't give you an answer to	3	the authors' conclusions were
4	your question because you're that's not	4	reasonable.
1	an accurate representation of what the paper 02:46	5	BY ATTORNEY DAVIDSON: 02:48
6	is trying to say.	6	Q. Do you agree with the authors, that
7	Q. There's an accurate	7	this study clearly demonstrates that talcum
8	ATTORNEY O'DELL: Excuse me. He's	8	powder exposure induced malignant
9	not finished.	9	transformation?
10	1 6	10	A. Again, I find the authors' 02:48
11	out those words and asking: Does this	l .	conclusions in the context of this paper to
12	paper show that? But it's		be reasonable.
	BY ATTORNEY DAVIDSON:	13	Q. And you disagree with the peer
14	Q. Forget what the author is saying,		reviewers who found the authors' conclusions
	Doctor. I'm just asking you a question 02:46	l	to be outrageous? 02:48
16		16	ATTORNEY O'DELL: Object to the
17	finished.  BY ATTORNEY DAVIDSON:	17	form.
10	BY ATTORNEY DAVIDSON: Q. Do you think this paper	18 19	THE WITNESS: Again ATTORNEY O'DELL: Facts outside of
10	O. DO YOU HIMK HIIS PAPEI	l .	evidence. 02:48
19		20	
20	demonstrates that talcum powder exposure 02:46	20	
20 21	demonstrates that talcum powder exposure 02:46 induced malignant transformation of normal	21	THE WITNESS: I haven't had the
20 21 22	demonstrates that talcum powder exposure 02:46 induced malignant transformation of normal ovarian cells?	21 22	THE WITNESS: I haven't had the opportunity to review both the version
20 21 22 23	demonstrates that talcum powder exposure 02:46 induced malignant transformation of normal ovarian cells?  ATTORNEY O'DELL: Dr. Levy, you	21 22 23	THE WITNESS: I haven't had the opportunity to review both the version of the paper that those reviewers saw
20 21 22	demonstrates that talcum powder exposure 02:46 induced malignant transformation of normal ovarian cells?	21 22	THE WITNESS: I haven't had the opportunity to review both the version

	Page 234		Page 23
1 B	Y ATTORNEY DAVIDSON:	1	that to Noah?
2	Q. Do you intend to ask	2	ATTORNEY O'DELL: I didn't hear
3	ATTORNEY O'DELL: I'm sorry. He's	3	ATTORNEY EPSTEIN: I'll put it in
4	not finished.	4	the chat.
5	THE WITNESS: For all I know 02:48	5	ATTORNEY DAVIDSON: I said that 02:51
6	ATTORNEY DAVIDSON: He's never	6	three minutes ago. I said we're
7	THE WITNESS: this paper is	7	putting in a different version.
8	substantially revised from the version	8	ATTORNEY O'DELL: You said you
9	that those comments were made.	9	asked him if it was the right version.
10 B	Y ATTORNEY DAVIDSON: 02:48	10	ATTORNEY DAVIDSON: No. I told 02:51
11	Q. It actually is not.	11	him it was the wrong version.
12	But do you intend to ask counsel	12	ATTORNEY O'DELL: I'm sorry. I
13 at	fter this deposition for all the drafts and	13	misunderstood what you were trying to
14 th	ne peer-reviewed comments?	14	say. I'm happy to put the right
15	A. I'd welcome the opportunity to see 02:49	15	version in the chat if you don't have 02:52
16 th	nose.	16	it.
17	Q. Your counsel has them.	17	ATTORNEY DAVIDSON: I've got it.
18	ATTORNEY DAVIDSON: Are we up to	18	This is Noah's second deposition ever.
19	Exhibit 9, Noah?	19	I would say he's Leigh, were you at
20	ATTORNEY EPSTEIN: Yes. 02:49	20	the first or was that Michelle? 02:52
21	ATTORNEY DAVIDSON: Let's mark	21	ATTORNEY O'DELL: I'm not sure.
22	Taher 2019 as Exhibit 9.	22	ATTORNEY DAVIDSON: I think that
23	(Exhibit Number 9 was marked for	23	was Michelle. I think you were
24	identification.)	24	probably at Sugarman. He's improved
25	ATTORNEY DAVIDSON: Noah, make 02:50	25	by leaps and bounds, and we're all 02:52
	Page 235		Page 23
1	sure it's the right version.	1	very proud.
2	ATTORNEY EPSTEIN: Yeah, I just	2	(Discussion off the record.)
3	pulled it. Let me	3	ATTORNEY O'DELL: I have no
4	ATTORNEY DAVIDSON: I don't know	4	criticism of Noah. I was just looking
5	why the wrong version was sent to me.	5	for the right version. 02:52
6	It's not the right version.	6	So, Noah, I hope you didn't take
	BY ATTORNEY DAVIDSON:	7	it that way.
8	Q. Before we move on, Dr. Levy, would	8	ATTORNEY DAVIDSON: We have a
"	you be comfortable putting your name as a	9	paralegal who keeps sending us the old
	co-author of a paper that claimed to have 02:50	10	Taher. 02:52
-	proven malignant transformation based on the	11	ATTORNEY O'DELL: I understand
13	lata we just saw in the Harper paper?  ATTORNEY O'DELL: Object to the	12 13	your pain. I have one that keeps
13	form. Incomplete hypothetical.	14	sending me the old Phung, and that doesn't work either. So we
15	THE WITNESS: It's a hypothetical 02:50	15	understand. 02:52
16	question. If I was I don't know.		BY ATTORNEY DAVIDSON:
17	Again, it would depend on the totality	17	Q. Let me try to make that
18	of the experiments. I would certainly		parenthetical a little more concrete before
19	value the opinions of peers during		we move on to Taher.
20	that review process. 02:51	20	Would you be comfortable putting 02:53
	ATTORNEY O'DELL: I believe the		your name on a paper that claims to have
21	ATTOMALI O DELL. I DONOVE UIC		
21	naner that's put in the chat was not	22	clearly demonstrated malignant
22	paper that's put in the chat was not the final: is that right?		clearly demonstrated malignant
	paper that's put in the chat was not the final; is that right? ATTORNEY DAVIDSON: That's what I	23	transformation based solely on IHC staining and the Abcam assay used here?

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THE WITNESS: Again, it's	1 necessarily what would have to 2 be done and not have to be done.
3 possibly.	3 It would be evaluating the
4 BY ATTORNEY DAVIDSON:	4 totality of that work in the
5 Q. Okay. Nothing more would need to 02:53	5 context of these experiments and 02:54
6 be done for you to be comfortable putting	6 discussion with the other
7 your name on such a paper?	7 authors and participants in that
8 ATTORNEY O'DELL: Object to the	8 experiment. The writing of the
9 form. Incomplete hypothetical.	9 paper and results is a small
10 THE WITNESS: I would have to 02:53	process, especially of that that 02:55
11 evaluate that at the time of the	11 warrants co-authors. So that's
experiments and the results and being	12 why I say, therefore, my answer
involved in that process. I wasn't	13 is possibly.")
14 involved in this, and so inappropriate	14 BY ATTORNEY DAVIDSON:
15 for me to say whether or not I would 02:54	15 Q. So is the same true of this study? 02:57
be a co-author or where in the	16 That you can't really evaluate its
17 co-authorship it would belong.	17 reliability without reviewing all the tests
18 BY ATTORNEY DAVIDSON:	18 and results that they conducted and set
19 Q. Just so you know, it is appropriate	19 forth in their paper?
20 to ask experts hypothetical questions. 02:54	20 ATTORNEY O'DELL: Objection. 02:57
21 That's one of the rules of the Federal Rules	21 Asked and answered.
22 of Procedure. So it is appropriate to ask	22 THE WITNESS: No, I wouldn't
23 an expert if he would be comfortable with	23 characterize it as that.
24 something like this.	24 BY ATTORNEY DAVIDSON:
25 I'm trying to understand what would 02:54	25 Q. Why is that? 02:57
Page 239	Page 241
1 have to be done in a study for you to be	1 A. Because the scientific literature
2 comfortable putting your name on a paper	2 is a as you know, is a continually
3 that claims to have clearly demonstrated	3 evolving set of observations and tests and
4 malignant transformation.	4 experiments. So we're asking very discrete
5 What would you want to be done on 02:54	5 questions in different ways and that 02:57
6 such a paper for you to feel comfortable	6 evaluating this paper as it stands is what
7 using the term "clearly demonstrated	7 we've been discussing. And we've, you know,
8 malignant transformation"?	8 asked and answered a number of questions
9 A. Again, it's not necessarily what	9 around that. It's a completely separate
10 would have to be done or not have to be 02:54	10 discussion as to how do we change this study 02:58
11 done. It would be, again, being able to	11 to warrant co-authorship or participation in
12 evaluate the totality of that work in the	12 the study. So they're independent from each
13 context of the experiments and having that	13 other.
14 discussion with the other authors and	So I'm not sure so the to
15 participants in that experiment. The 02:54	15 answer it differently, the level of rigor 02:58
16 writing of the paper and the summary of	16 that I would apply in answering your
17 those results is only a small part of the	17 question about being a co-author and what
18 overall process, especially of that that	18 would have to be done on a study is a
19 warrants co-authorship. So that's why I	19 different question than asking what
20 say, therefore, my answer is possibly. 02:55	20 information or inferences or observations 02:58
21 ATTORNEY DAVIDSON: Can you read	21 can be drawn from a publication.
22 back that answer.	177 II To what aytant are you relying on
	Q. To what extent are you relying on
23 (Record read by the Certified	23 Harper 2023 in forming your opinions in this

Page 242	Page 244
1 review, and as a new piece of literature	1 Q. And did you notice this when you
2 added after the writing of the last report	2 read the Taher paper that you cited in your
3 to contribute to, as stated in the report,	3 report?
4 some of the some of the mechanistic and	4 A. I don't specifically recall
5 in vitro support for the overall biological 02:59	5 noticing this, but I understand what it's 03:02
6 plausibility.	6 saying.
7 Q. I assume if your opinions on the	7 Q. Did you mention in your report when
8 paper change after you read the	8 you cited the Taher paper: Oh, by the way,
9 peer-reviewed comments, that you'll either	9 the authors say very low certainty of the
10 submit a amended report or otherwise let us 02:59	10 evidence, we have very little confidence in 03:02
11 know, and I think we can move on.	11 our findings?
12 ATTORNEY O'DELL: Object to the	12 ATTORNEY O'DELL: Object to the
13 commentary.	13 form.
14 BY ATTORNEY DAVIDSON:	14 THE WITNESS: So the I think
15 Q. Let's talk about the Taher paper, 02:59	you also have to consider the 03:02
16 which we've put in the chat, and I think you	16 footnotes C and D as well as part of
17 now have the right one. I wanted to look at	17 that.
18 page 98. If you'd like, we can put it up on	18 BY ATTORNEY DAVIDSON:
19 the screen.	19 Q. My question was wait a minute,
20 A. I have it. 03:00	20 Doctor, you've got to answer my questions. 03:02
21 Q. I wanted to look in particular at	21 ATTORNEY O'DELL: No
22 Table 4.	22 BY ATTORNEY DAVIDSON:
23 Do you know what GRADE is, capital	23 Q. My question was: Did you mention
24 G-R-A-D-E?	24 in your report no, no, no. If you want
25 A. Not off the top of my head. 03:00	25 to talk about what else it says in there, 03:02
Page 243	Page 245
Page 243  1 Q. Do you see in Table 4 where the	Page 245  1 Leigh is going to ask you any questions she
1 Q. Do you see in Table 4 where the	1 Leigh is going to ask you any questions she
<ul><li>1 Q. Do you see in Table 4 where the</li><li>2 authors rate the certainty of the evidence</li></ul>	1 Leigh is going to ask you any questions she 2 wants.
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Page 246	Page 248
1 A. I see that now.	1 other than trying to be more comprehensive
2 Q. I just want to know if you	2 with all the materials as it relates to some
3 mentioned the very low certainty of the	3 of the epidemiology.
4 evidence referenced in Table 4 anywhere in	4 Q. When did you read this?
	· ·
J	F
6 A. I did not specifically reference	6 preparation for today.
7 Table 4 anywhere in the report.	7 Q. So, like, you read it for the first 8 time in the last few weeks?
8 Q. Nor did you, anywhere in your	
9 report, reference the authors' concerns	9 A. I'd have to give that some thought.
10 about the very low certainty of the evidence 03:04	10 It was added to the list more recently in 03:21
11 in that paper; correct?	11 terms of cleaning up the list, but I can't
12 ATTORNEY O'DELL: Object to the	12 say for sure if it was a lot of things
13 form.	13 kind of ran together as a or started to
14 BY ATTORNEY DAVIDSON:	14 run together as I was preparing for today.
15 Q. Correct, Doctor? 03:04	15 Q. So you're not sure when you read 03:21
16 A. So your statement is correct, but	16 this?
17 your reasoning for the statement is	17 A. No, I'm not sure.
18 incorrect.	18 Q. Okay. Let's move on.
19 Q. There is no reasoning in my	19 ATTORNEY DAVIDSON: Let's mark as
20 statement. 03:04	20 Exhibit 11 Wentzensen and O'Brien. 03:21
21 Let's move on.	21 2021, I think.
22 ATTORNEY DAVIDSON: You can take	22 (Exhibit Number 11 was marked for
23 this down, Noah. If we could let's	23 identification.)
24 go off the record. I need five	24 ///
25 minutes. 03:05	25 ///
Page 247	Page 249
1 (Recess taken from 3:05 p.m. to	1 BY ATTORNEY DAVIDSON:
2 3:19 p.m.)	2 Q. Talc, body powder, and ovarian
3 BY ATTORNEY DAVIDSON:	3 cancer: A summary of the epidemiologic
4 Q. Dr. Levy, earlier today I was	4 evidence.
5 asking you why O'Brien 2020 was added to 03:19	5 This paper is cited in your report 03:22
6 your reliance list only this Saturday, and	6 on page
7 you said you couldn't answer without seeing	7 A. 16.
8 it. So we put in the chat O'Brien 2020.	8 Q 16, top of page 16.
9 And I'm wondering if that refreshes	9 Do you see that, Dr. Levy?
10 your recollection as to why it's a recent 03:19	10 A. I do. 03:22
11 addition to your reliance list.	11 Q. So you cite this paper after a
12 (Exhibit Number 10 was marked for	12 sentence that says: Multiple
13 identification.)	13 epidemiological studies examine aggregate
14 THE WITNESS: Yeah, you can hear	14 data from large cohorts of patients have
15 me; right, Jessica? 03:20	15 consistently found an increased risk of talc 03:22
16 BY ATTORNEY DAVIDSON:	16 use in ovarian cancer.
17 Q. Sure can.	17 Do you see that?
18 A. Okay. Just want to make sure.	18 A. I do.
19 No specific reasoning. I think	19 Q. First of all, is this an
20 the I believe this was added after the 03:20	20 epidemiological study? 03:22
21 fact, but it is referenced and included in	21 A. It's a summary of epidemiology
22 one of the I think it is included in	22 studies.
23 the one of the meta-analysis or cohort	23 Q. This would be called a review
-	24 paper; right?
<ul> <li>24 references that is referenced in my report.</li> <li>25 So I think it was just no specific reason 03:20</li> </ul>	25 A. Sure, yeah. 03:23

D 250	D 050
Page 250  1 Q. So have you read this paper in	Page 252 1 is difficult to conclude that the observed
2 full?	2 associations are causal?
3 A. I have.	3 A. I don't recall that specific
4 Q. What's the ultimate conclusion of	4 sentence. I wouldn't be surprised that it
5 the authors? 03:23	5 was phrased that way. 03:25
6 ATTORNEY O'DELL: Object to the	6 Q. The authors also state that the
7 form. Excuse me. Sorry.	7 experimental and animal carcinogenicity data
8 THE WITNESS: I think so this	8 for talc are limited and inconclusive, and
9 was I'd say the authors have a few	9 there are currently no good animal or
10 different conclusions. One is they 03:24	10 experimental models of ovarian 03:26
11 indicated, as was referenced in the	11 carcinogenesis that can be used to more
paper, a positive association between	12 directly test biological effects of talc.
general powder use and ovarian cancer.	Do you agree with them on that?
14 BY ATTORNEY DAVIDSON:	14 ATTORNEY O'DELL: I'm sorry,
15 Q. Can you point me to where they say 03:24	15 Jessica. Would you tell us where 03:26
16 that?	16 you're reading, please?
17 A. Sure. So it's in the abstract	17 ATTORNEY DAVIDSON: Page 8.
18 about halfway down, starting with: Taken	18 ATTORNEY O'DELL: Which column?
19 together, the epidemiological data from case	19 ATTORNEY DAVIDSON: Noah, do you
20 control and cohort studies suggest there may 03:24	want to put it up. Right at the 03:26
21 be a small positive association.	bottom on the right.
22 Q. I'm sorry. You left out the word	22 BY ATTORNEY DAVIDSON:
23 "may."	Q. Do you agree with the authors that
24 There may be a small positive	24 the experimental and animal carcinogenicity
25 association; right? 03:24	25 data for talc are limited and inconclusive, 03:26
Page 251	Page 253
1 A. Correct. That's what it states.	1 and there are currently no good animal or
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D 054	D 255
Page 254  1 supported by more literature references,	Page 256  1 ATTORNEY O'DELL: Object to the
2 particularly in light of everything we've	2 form. Assumes facts not in evidence.
3 been discussing today, that there are	3 THE WITNESS: So these are
4 numerous publications or numerous things	
5 that could I'm not saying the authors 03:28	5 Institute of Health and NIHS, as you 03:30
6 have to cite them. It's up to the	6 stated. What their I don't have
7 discretion of the author as to what	7 any information on what their career
8 conclusions they draw, as we were just	8 path or trajectory may have been.
9 discussing with the last paper; however, I	9 BY ATTORNEY DAVIDSON:
10 think a broad-ranging statement like that 03:28	Q. Do you believe that you are more 03:30
11 with a single reference is a little bit	11 knowledgeable about ovarian cancer,
12 surprising, especially given the somewhat	12 epidemiology, and biology than Drs.
13 conservative nature of the way the authors	13 Wentzensen and O'Brien?
14 have worded some of their other conclusions.	14 A. I don't have a basis on which to
Based on my review of the 03:28	15 make that comparison, but I am not an 03:30
16 literature, I would disagree with that	16 epidemiologist.
17 statement.	17 Q. Okay. Let's look at page 16 of
18 Q. Do you know what Drs. Wentzensen	18 your report.
19 and O'Brien do with their lives?	19 A. Okay.
20 A. I don't know specifically. I 03:28	20 Q. You say: Two independent research 03:31
21 would looking at their affiliations.	21 studies examined cohorts of women with
Q. Let's go to page 1.	22 self-reported use of talc, store-bought
A. Looking at their affiliations,	23 douches, or a combination of both.
24 they're epidemiologists.	24 (Gabriel, Vitonis et al. 2019, O'Brien,
25 Q. One of them is at the American 03:29	25 D'Aloisio et al. 2019) The two studies 03:31
Page 255	Page 257
1 Cancer Institute and the other is at the	1 found a positive association between talc
2 NIH, National Institute of Environmental	2 use or without douching and ovarian cancer.
3 Health Sciences; correct?	3 Do you see that?
4 A. NIHS, yeah.	4 A. I do.
5 Q. And unlike many of the other 03:29	5 Q. Yes? 03:32
6 experts whose papers you've cited today and	6 A. Yes, I do.
7 throughout your report, they're not experts	7 Q. How did you identify the O'Brien
8 for plaintiffs hired in this litigation;	8 2019 paper?
9 correct?	9 A. I'm not sure specifically.
10 ATTORNEY O'DELL: Object to the 03:29	10 Q. Can we pull it up, please. 03:32
11 form.	11 A. I don't recall if it was through
12 THE WITNESS: Again, I'm not aware	12 one of the review articles or meta-analysis
13 of their relationship to plaintiffs or	13 or through a search. I'm not sure.
14 defense. I've not certainly they	14 ATTORNEY DAVIDSON: What exhibit
15 have not been stated to be associated 03:29	15 number would that be? 03:32
16 with this litigation in any way.	16 ATTORNEY EPSTEIN: Exhibit 12.
17 BY ATTORNEY DAVIDSON:	17 ATTORNET EFSTEIN. Exhibit 12.
	18 O'Brien 2019 Exhibit 12.
,	`
20 Excuse me. Have you finished? 03:29	20 identification.) 03:32
THE WITNESS: Yeah, I finished.	21 ATTORNEY DAVIDSON: Do you want to
22 ATTORNEY O'DELL: Thank you.	22 put it up on the screen as well?
23 BY ATTORNEY DAVIDSON:	23 BY ATTORNEY DAVIDSON:
Q. These are scientists who devoted	Q. Dr. Levy, O'Brien 2019 actually had
25 their careers to cancer research; right? 03:30	25 nothing to do with ovarian cancer; right? 03:33

Page 258  1 That's just a mistake in your report? 2 A. So this was uterine, correct. 3 Yeah, uterine cancer. 4 Q. So these two sentences are 5 erroneous? 03:33 6 ATTORNEY O'DELL: Object to the 7 form. 8 BY ATTORNEY DAVIDSON: 9 Q. Actually three sentences. 10 A. So the first sentence is not 11 incorrect. It's beginning with two 12 independent research studies. 13 Q. Why did you include a study about 14 uterine cancer in your report? 15 A. I think just through the overall 16 review of tale and its association with 17 cancer. 18 Q. Did you intend to include this 19 paper in your report? 20 A. I think just through the overall 21 paper, but as I was summarizing in the 22 report, I just misstated or should have made 23 clear ovarian or uterine cancer. Should 24 have been more clear in the description of 25 the studies as it relates to their findings. 10 Q. Did this paper find a statistically 2 significant association between talc use and 3 uterine cancer studies. 11 Incorrect. It's beginning with two 12 independent research studies. 13 Q. Why did you include a study about 14 uterine cancer in your report? 15 A. I think just through the overall 16 talc use and uterine cancer? 17 A. Again, not that I've found, but I 18 wasn't searching for specifically for 19 uterine cancer studies. 20 Q. If you weren't searching for 03:37 21 uterine cancer studies, why did you cite 22 this study? 23 A. Correct. Ithink this study found 3 a positive association as was stated in the 4 report. 5 Q. The report. Are you aware 6 of any paper that has found a positive 9 statistically significant association 10 between tale use and uterine cancer? 11 A. Not outside of this paper, no. Not 12 that I'm aware. 13 Q. Including this paper, are you aware 14 of any paper that has found a statistically 15 significant positive association between 03:37 16 talc use and uterine cancer? 17 A. Again, not that I've found, but I 18 wasn't searching for specifically for 19 uterine cancer studies. 20 Q. If you weren't searching for 03:37 21 uterine cancer
2 A. So this was uterine, correct. 3 Yeah, uterine cancer. 4 Q. So these two sentences are 5 erroneous? 6 ATTORNEY O'DELL: Object to the 7 form. 8 BY ATTORNEY DAVIDSON: 9 Q. Actually three sentences. 10 A. So the first sentence is not 03:33 11 incorrect. It's beginning with two 12 independent research studies. 13 Q. Why did you include a study about 14 uterine cancer in your report? 15 A. I think just through the overall 03:34 16 review of talc and its association with 17 cancer. 18 Q. Did you intend to include this 19 paper in your report? 20 A. I think I intended to include this 19 paper, but as I was summarizing in the 22 report, I just misstated or should have made 23 clear ovarian or uterine cancer. Should 24 have been more clear in the description of 25 the studies as it relates to their findings. 03:34 1 Q. Did this paper find a statistically 2 significant association between talc use and uterine cancer? 10 A. Not outside of this paper, no. Not 11 A. Not outside of this paper, no. Not 12 that I'm aware. 13 Q. Including this paper, are you aware 14 of any paper that has found a statistically 15 significant positive association between 03:37 16 talc use and uterine cancer? 17 A. Again, not that I've found, but I 18 wasn't searching for specifically for 19 uterine cancer studies. 20 Q. If you weren't searching for 03:37 21 uterine cancer studies, why did you cite 22 this study? 23 ATTORNEY O'DELL: Objection. 24 Asked and answered. 25 THE WITNESS: This study came up 03:3 26 Page 259 27 THE WITNESS: This study came up 03:3 28 Page 259 29 ATTORNEY O'DELL: Objection. 29 ATTORNEY O'DELL: Objection. 29 ATTORNEY O'DELL: Objection. 20 Asked and answered. 21 as part of the review, but I didn't 2 extend that search to include 3 additional uterine cancer studies as
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3 uterine cancer? 3 additional uterine cancer studies as
A A Vac it looks like an adjusted A well
, , , , , , , , , , , , , , , , , , ,
5 hazard ratio of 1.2. 03:34 5 BY ATTORNEY DAVIDSON: 03:
6 Q. Was it statistically significant? 6 Q. Do you consider a 1.2 association
7 A. It looks like when you include the 7 with a confidence level of .94 to 1.6 to be
8 dose response curve. 8 a positive association?
9 Q. Doctor, what's the 95 percent 9 A. Yes, I would say that's a positive
10 confidence interval? 03:35 10 association. 03:37
11 A. It's a the confidence in the 11 Q. I see. I asked you earlier if you
12 data to being that you have confidence 12 had read the Chang study which also
13 that you're 95 chances out of a hundred that 13 addresses douching and ovarian cancer in
14 you're correct. 14 contrast to the O'Brien study which does not
15 Q. What is the 95 percent confidence 03:35 15 actually address ovarian cancer. And you 03:38
16 interval in this paper for the 1.2 16 said you couldn't tell me if you had seen it
17 association? 17 or not, but it was not on your reliance
18 A. 0.94. 18 list; correct?
19 Q. So it's not statistically 19 A. I believe that's correct.
20 significant, the 1.2; correct? 03:36 20 Q. Let's put up the Chang study. 13. 03:38
21 A. At the 95th percentile confidence 21 (Exhibit Number 13 was marked for
22 interval for this study. 22 identification.)
23 Q. So this paper did not find a 23 ATTORNEY EPSTEIN: Exhibit 13,
24 statistically significant association 24 yes.
25 between talc use and the risk of uterine 03:36 25 ///

Page 262	Page 264
1 BY ATTORNEY DAVIDSON:	1 because what I'm seeing on my screen
2 Q. Does seeing this paper refresh your	2 or what downloaded was only table S4,
3 recollection that you've never seen it?	3 and I believe there are multiple
4 A. It just popped up for me. Okay. I	4 tables supplemental tables. I just
5 have it now. 03:39	5 want the record to be clear. 03:42
6 No, I don't believe I've seen this	6 ATTORNEY DAVIDSON: You're welcome
7 study in 2024. I know I've seen another	7 to ask, Dr. Levy, about any
8 work other work from the sister study but	8 supplemental tables in this paper.
9 not this one. Perhaps not this one.	9 BY ATTORNEY DAVIDSON:
_	
	10 Q. Let's look at hygiene. 03:42 11 ATTORNEY O'DELL: So the record
11 supplemental table.	will be clear, it's not the
12 ATTORNEY O'DELL: If you need a	
moment to review it, Dr. Levy, please	supplemental tables. It's just that
14 take your time.	14 particular one.
15 ATTORNEY DAVIDSON: Noah, can you 03:39	15 BY ATTORNEY DAVIDSON: 03:42
16 put supplemental table S4 up on the	16 Q. So
17 screen.	17 A. Yeah, specifically rows 56 through
18 ATTORNEY EPSTEIN: Do you want me	18 61.
19 to put it in the chat as well?	19 Q. I want to look at ovarian cancer
20 ATTORNEY DAVIDSON: Yeah, I 03:40	20 which is I believe the second column, like 03:42
21 thought you had it attached all as one	21 the second yeah, this is the ovarian
22 doc. If not, let's mark the	22 cancer numbers.
23 supplemental tables as Exhibit 14.	23 ATTORNEY DAVIDSON: Noah, it's
24 (Exhibit Number 14 was marked for	24 really hard because how do we show the
25 identification.) 03:41	25 headings? I have it on my my 03:43
Page 263	
1 BY ATTORNEY DAVIDSON:	1 printout is so much easier to read.
2 Q. All right, Doctor, let's look at	2 BY ATTORNEY DAVIDSON:
3 ATTORNEY DAVIDSON: Noah, the way	3 Q. I wanted to ask you what is the
4 you've got this it's kind of hard to	4 age-adjusted hazard ratio for bath gel and
5 read. I assume you have it in the 03:41	5 ovarian cancer? 03:43
6 chat so maybe you can oh, my God.	6 A. If you're referring to row 46 for
7 I wanted to look at the hygiene	7 ovarian cancer, the age-adjusted hazard
8 products.	8 ratio is 1.06.
9 ATTORNEY O'DELL: What page,	9 Q. And is that statistically
10 please? 03:41	10 significant? 03:43
11 THE WITNESS: This is the	11 A. The 95th confidence interval is .98
12 BY ATTORNEY DAVIDSON:	12 to 1.14.
13 Q. Table S4 shows the association	12 to 1.14. 13 Q. So that means no, not statistically
<ul><li>13 Q. Table S4 shows the association</li><li>14 between one frequency category increased in</li></ul>	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right?
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right?
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form.
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models.	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct.
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that?	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form.
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models.	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct.
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that?	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct. 18 BY ATTORNEY DAVIDSON:
13 Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that? 19 ATTORNEY O'DELL: So this is just	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct. 18 BY ATTORNEY DAVIDSON: 19 Q. And for deodorant, what's the
Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that? 19 ATTORNEY O'DELL: So this is just 20 one of the tables? This is just S4? 03:42	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct. 18 BY ATTORNEY DAVIDSON: 19 Q. And for deodorant, what's the 20 association? 03:44
Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that? 19 ATTORNEY O'DELL: So this is just 20 one of the tables? This is just S4? 03:42 21 This is not all the tables,	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct. 18 BY ATTORNEY DAVIDSON: 19 Q. And for deodorant, what's the 20 association? 03:44 21 A96.
Q. Table S4 shows the association 14 between one frequency category increased in 15 use of single personal care product and 03:41 16 breast, ovarian, and uterine cancer for 17 proportioned hazard models. 18 Do you see that? 19 ATTORNEY O'DELL: So this is just 20 one of the tables? This is just S4? 03:42 21 This is not all the tables, 22 supplemental tables to Chang; correct?	12 to 1.14. 13 Q. So that means no, not statistically 14 significant; right? 15 ATTORNEY O'DELL: Object to the 03:44 16 form. 17 THE WITNESS: Correct. 18 BY ATTORNEY DAVIDSON: 19 Q. And for deodorant, what's the 20 association? 03:44 21 A96. 22 Q. For douching, what's the

		Page 266			Page 268
1 A.	So the 95th percent confidence	1 age 200	1	THE WITNESS: Yes, that's what	1 age 200
	val is from 1.12 to 1.68.		2	this study is reporting.	
	And that is statistically		3	BY ATTORNEY DAVIDSON:	
_	ficant; correct?		4	Q. So the only exposure with a	
_		:44	5	statistically significant increased risk is 03:	:46
1	ing it's over a hazard ratio of 1 at the	<b>)</b>		douching at 1.37 with a 1.12 to 1.68	
1	confidence interval, but my			confidence interval; correct?	
8 interp	pretation would still be this is a		8	ATTORNEY O'DELL: Objection to th	e
9 positi	ive association.		9	form.	
10 Q.	Doctor, you're aware that in the	03:44	10	THE WITNESS: In this table that	3:46
11 field	of epidemiology, statistical		11	is what the summary results are	
12 signif	ficance means that the confidence		12	indicating.	
13 interv	val doesn't cross 1; right?		13	BY ATTORNEY DAVIDSON:	
14 A.	Uh-huh.		14	Q. But when you talk about cohorts of	
	Okay. You just keep hesitating	03:45		women with self-reported use of talc and	03:46
	I ask you if something was			douching, you don't mention this paper;	
	tically significant; so I wasn't sure			correct?	
1	a're aware of that.		18	A. Correct. As I said, I'd have to	
	ATTORNEY O'DELL: Objection.			I think I did reference one of the sister	
	ATTORNEY DAVIDSON:	03:45		study papers. I'd have to check. 03:4	17
_	Mouthwash does not show positive		21	Q. Can genetically changing form cause	
	riation; right?			ovarian cancer?	
	Mouthwash shows 0.98 with a		23	A. Genetic mutations the	
	dence interval of .91 to 1.07.	02.45		preponderance of the literature indicates	2.47
25 Q.	That is not a positive association;	03:45	23	that genetic mutations can provide an 0	3:47
		Page 267			Page 269
1 correc				increased risk for ovarian cancer. I'm not	
	Correct.			aware of any specific mutations that have	
1	Shaving cream shows a 1.03			been proven to be causative for ovarian cancer.	
5 correct	statistically significant association;		_	*******	12.47
	ct? 03:45 That's correct.		5	Q. Would you agree that the science and technology	)3:47
	Talc under the arm, 1.07		7	ATTORNEY DAVIDSON: By the way	17
1	statistically significant association;		8	Noah, you can take that down.	у,
9 correc			_	BY ATTORNEY DAVIDSON:	
	ATTORNEY O'DELL: Object to the	e 03:45	10		3:48
11 for		03.13		and technology that are being used to detect	
	THE WITNESS: Based on the in			cancer-causing genetic mutations is	
	e 95th confidence interval, that's			evolving are evolving?	
	rrect.		14	A. Yes, I would agree.	
	ATTORNEY DAVIDSON:	03:45		_	3:48
	Same for talc vaginal; correct?			genetic mutations that we don't know about	
_			10		
17 A	=	e		yet?	
17 A	ATTORNEY O'DELL: Object to the	e		yet?	
18 for	ATTORNEY O'DELL: Object to the		17 18	_	
18 for 19	ATTORNEY O'DELL: Object to them.		17 18 19	yet?  A. You know, again, the use of the word "causing," I would say associated	3:48
18 for 19 7 20 the	ATTORNEY O'DELL: Object to them. THE WITNESS: So those numbers		17 18 19 20	yet?  A. You know, again, the use of the word "causing," I would say associated	3:48
18 for 19 7 20 the 21 BY A	ATTORNEY O'DELL: Object to the rm. THE WITNESS: So those numbers a same.  03:46		17 18 19 20 21	yet?  A. You know, again, the use of the word "causing," I would say associated variants to cancer. There are certainly	3:48
18 form 19 7 20 the 21 BY A 22 Q.	ATTORNEY O'DELL: Object to the rm. THE WITNESS: So those numbers e same. 03:46 ATTORNEY DAVIDSON:		17 18 19 20 21 22	yet?  A. You know, again, the use of the word "causing," I would say associated variants to cancer. There are certainly 03 relevant genetic changes to cancer that we	3:48
18 form 19 7 20 the 21 BY A 22 Q. 23 non-s	ATTORNEY O'DELL: Object to them. THE WITNESS: So those numbers esame. 03:46 ATTORNEY DAVIDSON: And then talc other is 1.01	are	17 18 19 20 21 22 23 24	yet?  A. You know, again, the use of the word "causing," I would say associated variants to cancer. There are certainly relevant genetic changes to cancer that we don't know yet, but there's an important	

we will find single gene highly penetront	Page 270	1	somebody? No. I don't know the full range	Page 272
•				r
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	c 03·40		· · · · · · · · · · · · · · · · · · ·	03:51
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	03.40			03:51
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	03.49			03:52
	03.47		<u>*</u>	03.32
			<del>-</del>	
· · · · · · · · · · · · · · · · · · ·				
<u> </u>	03.49			52.
				Page 273
I seen any well. I don't know of	1 age 271	1	fair to the entire testing field, meaning	1 age 273
BY ATTORNEY DAVIDSON:	03:50			3:52
- ·				
_				
•		9	•	
		10	form. 03:52	
Q. Has our knowledge of mutations and		11	THE WITNESS: I don't think next	
		12		
		13		
		14	no.	
	03:50			03:52
form. Vague.		16		
THE WITNESS: I would be confident		17		
to say yes, our that it has changed		18	A. The totality of the testing methods	
over the last five years.			are being worked on.	
	02.50		•	03:53
BY ATTORNEY DAVIDSON:	03:50		- ·	
	05:30		records of all six plaintiffs in this case?	
Q. Do you, sitting here today, have a	05:50		records of all six plaintiffs in this case?  A. I've reviewed the materials that	
Q. Do you, sitting here today, have a full range of genes that predispose someone	03:30	21 22	A. I've reviewed the materials that	
Q. Do you, sitting here today, have a	03:30	21 22 23	<del>-</del>	
	We've done enough exomes. We've done en cancer profiling that we likely have found those. It still remains an evolving field to understand the complex relationship between any given mutation, the background genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic that genetics plays a role.  Q. Do ovarian cancer researchers agree with you on that?  A. I would think so.  Q. Have you seen any papers by ovarian cancer researchers saying what you just said?  ATTORNEY O'DELL: Object to the form. Vague.  THE WITNESS: Stating that have  I seen any well, I don't know of any papers making those similar summary statements. That would be unusual.  BY ATTORNEY DAVIDSON:  Q. Is there actually a whole field of ovarian cancer researchers looking for new genetic mutations to understand hereditary breast and ovarian cancer syndrome?  A. Certainly.  Q. Has our knowledge of mutations and what mutations are associated with ovarian cancer increased since your deposition in 2019?  ATTORNEY O'DELL: Object to the form. Vague.  THE WITNESS: I would be confident	mutations that say identified as causative, meaning they, in and of themselves, cause cancer that have yet to be discovered yet. We've done enough genomes. 03:49 We've done enough exomes. We've done enough cancer profiling that we likely have found those. It still remains an evolving field to understand the complex relationship between any given mutation, the background genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic that genetics 03:49 plays a role.  Q. Do ovarian cancer researchers agree with you on that?  A. I would think so. Q. Have you seen any papers by ovarian cancer researchers saying what you just said?  ATTORNEY O'DELL: Object to the form. Vague.  THE WITNESS: Stating that have 03:49  Page 271  I seen any well, I don't know of any papers making those similar summary statements. That would be unusual.  BY ATTORNEY DAVIDSON: 03:50 Q. Is there actually a whole field of ovarian cancer researchers looking for new genetic mutations to understand hereditary breast and ovarian cancer syndrome? A. Certainly. 03:50 Q. Has our knowledge of mutations and what mutations are associated with ovarian cancer increased since your deposition in 2019?  ATTORNEY O'DELL: Object to the form. Vague. THE WITNESS: I would be confident	we will find single gene, highly penetrant mutations that say identified as causative, meaning they, in and of themselves, cause cancer that have yet to be discovered yet. We've done enough genomes. 03:49 We've done enough exomes. We've done enough cancer profiling that we likely have found those. 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Do ovarian cancer testing remains inadequate? between any given mutation, the background genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic — that genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic — that genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic — that genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic — that genetics of that individual, and then the resulting initiation and progression of disease. Especially in cancer but certainly exists in many other common disorders that we know have a genetic — that genetics of the form. Vague.  I seen any — well, I don't know of any papers making those similar summary statements. That would be unusual.  BY ATTORNEY DAVIDSON:  Q. Is there actually a whole field of ovarian cancer researchers looking

Page 274  1 with respect to each of them?	Page 276  1 ATTORNEY O'DELL: Excuse me. He
2 A. In most it's been their genetic	wasn't finished. Were you finished?
3 testing results, but I think if there's I	3 ATTORNEY DAVIDSON: I'm sorry. I
4 would have just the materials that were	4 just assume that a period was the end.
5 provided on each of those six. In some 03:53	5 BY ATTORNEY DAVIDSON: 03:55
6 cases there were multiple testing results,	6 Q. Do you recall whether Dr. Godleski
7 and in other cases there were single testing	7 found talc particles in all of the
8 results. It depends on which patient you're	8 plaintiff's tissues?
9 referring to.	9 A. I recall I reviewed a plaintiff
10 Q. Have you ever done 03:54	10 that he had also performed that analysis on. 03:56
11 A. But	11 I'm not aware if he had the opportunity to
12 ATTORNEY O'DELL: I'm sorry.	12 analyze all six plaintiffs. I don't know if
13 He's	13 pathology material was actually available
14 THE WITNESS: I just wanted to	14 for all six or not. I would defer
15 clarify in no cases was I provided a 03:54	15 certainly defer to Dr. Godleski on that. 03:56
16 complete medical record on any of the	16 Q. Are you aware of whether
17 individuals.	17 Dr. Godleski looked at any of the
18 ATTORNEY DAVIDSON: I want to make	18 plaintiffs' ovary tissues and actually found
19 clearly that Dr. Levy has a habit of	19 no tale particles?
20 stopping and then thinking of 03:54	20 ATTORNEY O'DELL: Objection to 03:56
21 something else he wants to say after I	21 form.
22 start asking a question.	22 THE WITNESS: I would have to
23 BY ATTORNEY DAVIDSON:	23 review Dr. Godleski's report. I
24 Q. Have you ever done genetic	24 believe just from memory that he found
25 counseling in your life? 03:54	25 that there were either sections or 03:56
Page 275	Page 277
1 A. I'm not a genetic counselor.	_
1 11. 1 III not a genetic coamselor.	The Diocks where faic darricles were not
-	1 blocks where talc particles were not 2 found. As reported in his report, it
2 Q. Genetic counseling typically	2 found. As reported in his report, it
<ul><li>Q. Genetic counseling typically</li><li>involves interviewing patients; right?</li></ul>	2 found. As reported in his report, it 3 was six out of seven or four out of
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> </ul>	2 found. As reported in his report, it 3 was six out of seven or four out of 4 seven or something in that range.
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> </ul>	<ul> <li>found. As reported in his report, it</li> <li>was six out of seven or four out of</li> <li>seven or something in that range.</li> <li>But, again, I would have to review his 03:5</li> </ul>
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<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> <li>patient, so yes. During my time at</li> <li>HudsonAlpha, I employed genetic counselors</li> </ul>	<ul> <li>found. As reported in his report, it</li> <li>was six out of seven or four out of</li> <li>seven or something in that range.</li> <li>But, again, I would have to review his</li> <li>report to give you an accurate</li> <li>statement.</li> </ul>
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> <li>patient, so yes. During my time at</li> <li>HudsonAlpha, I employed genetic counselors</li> <li>that were under my supervision.</li> </ul>	2 found. As reported in his report, it 3 was six out of seven or four out of 4 seven or something in that range. 5 But, again, I would have to review his 6 report to give you an accurate 7 statement. 8 BY ATTORNEY DAVIDSON:
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> <li>patient, so yes. During my time at</li> <li>HudsonAlpha, I employed genetic counselors</li> <li>that were under my supervision.</li> <li>Q. Did you interview any of the</li> </ul>	<ul> <li>found. As reported in his report, it</li> <li>was six out of seven or four out of</li> <li>seven or something in that range.</li> <li>But, again, I would have to review his</li> <li>report to give you an accurate</li> <li>statement.</li> <li>BY ATTORNEY DAVIDSON:</li> <li>Q. What do you mean by "four out of</li> </ul>
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> <li>patient, so yes. During my time at</li> <li>HudsonAlpha, I employed genetic counselors</li> <li>that were under my supervision.</li> <li>Q. Did you interview any of the</li> <li>plaintiffs in this case? 03:54</li> </ul>	2 found. As reported in his report, it 3 was six out of seven or four out of 4 seven or something in that range. 5 But, again, I would have to review his 6 report to give you an accurate 7 statement. 8 BY ATTORNEY DAVIDSON: 9 Q. What do you mean by "four out of 10 seven"? 03:57
<ul> <li>Q. Genetic counseling typically</li> <li>involves interviewing patients; right?</li> <li>A. Genetic counselors generally act as</li> <li>the individual that works directly with the 03:54</li> <li>patient, so yes. During my time at</li> <li>HudsonAlpha, I employed genetic counselors</li> <li>that were under my supervision.</li> <li>Q. Did you interview any of the</li> <li>plaintiffs in this case? 03:54</li> <li>A. I did not.</li> </ul>	2 found. As reported in his report, it 3 was six out of seven or four out of 4 seven or something in that range. 5 But, again, I would have to review his 6 report to give you an accurate 7 statement. 8 BY ATTORNEY DAVIDSON: 9 Q. What do you mean by "four out of 10 seven"? 03:57 11 A. Meaning his review of multiple
2 Q. Genetic counseling typically 3 involves interviewing patients; right? 4 A. Genetic counselors generally act as 5 the individual that works directly with the 03:54 6 patient, so yes. During my time at 7 HudsonAlpha, I employed genetic counselors 8 that were under my supervision. 9 Q. Did you interview any of the 10 plaintiffs in this case? 03:54 11 A. I did not. 12 Q. Do you know how long each plaintiff	2 found. As reported in his report, it 3 was six out of seven or four out of 4 seven or something in that range. 5 But, again, I would have to review his 6 report to give you an accurate 7 statement. 8 BY ATTORNEY DAVIDSON: 9 Q. What do you mean by "four out of 10 seven"? 03:57 11 A. Meaning his review of multiple 12 slides or multiple sections, how many he
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	Daga 279		Page 200
1	Page 278 BY ATTORNEY DAVIDSON:	1	Page 280 BY ATTORNEY DAVIDSON:
$\frac{1}{2}$	Q. Did the six plaintiffs all have the	2	Q. How many first and second degree
	same genetic testing or they had different	_	· · · · · · · · · · · · · · · · · · ·
		4	
I _	genetic tests?		C
5	A. The six plaintiffs did not have all 03:57	5	A. Based on what's on the screen, six. 04:01
l _	the same genetic testing.	6	Q. Is that above average?
7	Q. You would agree that genetic	7	ATTORNEY O'DELL: Object to the
	testing available on the market varies,	8	form.
	especially has varied over time and that	9	THE WITNESS: I'm not I'm
	these plaintiffs had their genetic testing 03:58	10	actually I would say I would 04:01
1	at different periods of time; correct?	11	have to confirm the relative couple
12	A. I would agree.	12	of things. One would be the smoking
13	Q. Do you agree that Ms. Bondurant has	13	history and in other history as well
14	a strong family history of cancer?	14	as age for some of these, but I can't
15	Let's mark her amended PFS, Noah, 03:58	15	say it's above or below average. 04:01
16	as Exhibit?	16	BY ATTORNEY DAVIDSON:
17	ATTORNEY EPSTEIN: Exhibit 15.	17	Q. Is that something a genetic
18	(Exhibit Number 15 was marked for	18	counselor would know better?
19	identification.)	19	ATTORNEY O'DELL: Object to the
20	BY ATTORNEY DAVIDSON: 03:59	20	form. 04:01
21	Q. Would you consider this to be a	21	THE WITNESS: I think a well, a
	strong family history of cancer?	22	genetic counselor may offer their
23	ATTORNEY O'DELL: Object to the	23	perspectives on the same, but again,
24	form.	24	these are family incidences with no
25	THE WITNESS: Just one second. 03:59	25	connection to genetic testing results 04:02
-	Page 279		Page 281
1	It's still downloading on my end.	1	in any of these extended family
	it's still do willouding on my cha.		
	BY ATTORNEY DAVIDSON:		
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3	Q. Isn't it on the screen?	2	members. So a genetic counselor would certainly consider this family history
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Isn't it on the screen? A. Oh, sorry. I was looking at the chat. 03:59  ATTORNEY O'DELL: If you need to pull it down from the chat, Dr. Levy, feel free to do that. ATTORNEY DAVIDSON: It's right up on the screen. 03:59  ATTORNEY O'DELL: It is, but it's available to him in the chat if he'd like to review the entire document. THE WITNESS: I wouldn't I'd say this is certainly a family history 04:00 of cancer. Given the timing and types, I'd say not unusual for an extended family.  BY ATTORNEY DAVIDSON: Q. So you don't consider this to be a 04:00 strong family history of cancer? ATTORNEY O'DELL: Objection to form. Asked and answered.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	members. So a genetic counselor would certainly consider this family history in combination with the genetic testing results from Ms. Bondurant. 04:02 BY ATTORNEY DAVIDSON: Q. Does having a mother with breast cancer and an aunt with ovarian cancer increase your risk of ovarian cancer? A. I think in this case in combination 04:02 with the genetic testing, yes, it allows you to make a more complete evaluation. Q. That wasn't my question. My question is: Does having a mother with breast cancer and an aunt with ovarian 04:02 cancer increase a woman's risk of having ovarian cancer? A. Yes. Q. Thank you. We can take that down. Let's talk about Ms. Converse. 04:03 Ms. Converse had both a mother and an aunt
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1 her report. I don't recall if she	1 to ovarian cancer as well.
2 if the family history was in the	2 Q. Are there genetic mutations known
3 BY ATTORNEY DAVIDSON:	3 to be pathogenic for ovarian cancer that are
4 Q. Well, let me ask the question	4 only found by BART testing?
5 differently so we can move things along. 04:03	5 ATTORNEY O'DELL: Object to the 04:06
6 Would having a mother and an aunt	6 form.
7 with breast cancer increase your risk of	7 THE WITNESS: Specific to ovarian
8 having breast or ovarian cancer?	8 cancer, I'm not aware of I'm not
9 ATTORNEY O'DELL: Objection to	9 aware of any specific mutations that
10 form. 04:04	10 are based on rearrangements in BRCA1 04:06
11 THE WITNESS: Yes, potentially.	11 and 2 that are pathogenic strictly to
12 BY ATTORNEY DAVIDSON:	12 ovarian cancer.
13 Q. Let's go on to Ms. Gallardo. If we	13 BY ATTORNEY DAVIDSON:
14 could look at page 22 of your report. You	14 Q. You're not aware of genetic
15 know that Ms. Gallardo was tested on eleven 04:04	15 mutations in BRCA genes known to be 04:06
16 genes; correct?	16 pathogenic for ovarian cancer that are only
17 A. Correct.	17 found by BART testing?
18 ATTORNEY O'DELL: And if you need	18 ATTORNEY O'DELL: Object to the
19 to see any of the medical records,	19 form.
20 Dr. Levy, just let us know. 04:04	20 THE WITNESS: I said specific to 04:06
21 BY ATTORNEY DAVIDSON:	21 ovarian cancer. BRCA1 has a risk for
22 Q. I know mutations were found in	both breast and ovarian cancer. As
23 these eleven genes according to your report;	23 long as that satisfies the requirement
24 correct?	24 for being pathogenic to ovarian,
25 A. That's correct. 04:04	25 then there is a growing body of 04:06
Page 283	ē ē ;
1 Q. Are you aware that the panel that	Page 285  1 evidence now that the technical
2 she had was done for endometrial cancer and	2 capabilities allow BART testing to
3 not ovarian cancer?	3 occur, then in addition to single
4 A. I would have to let me look at	4 nucleotide variants, there are now
5 the 04:05	5 rearrangements and other structural 04:07
6 Q. I could put it up.	6 variants that are beginning to be
7 A. Sure.	7 associated with both breast and
8 ATTORNEY DAVIDSON: Noah, do you	8 ovarian cancer. The body of that
9 want to put the exhibit? Would that	9 evidence is evolving.
10 be 14? 15? I'm lost. 04:05	10 BY ATTORNEY DAVIDSON: 04:07
11 ATTORNEY EPSTEIN: That would be	11 Q. Are you aware that over 10 percent
12 16. I'm putting it in the chat right	12 of genetic mutations in BRCA genes that are
13 now.	13 known to be pathogenic for ovarian cancer
14 (Exhibit Number 16 was marked for	14 can only be found by BART testing?
15 identification.) 04:05	15 ATTORNEY O'DELL: Object to the 04:07
16 BY ATTORNEY DAVIDSON:	16 form.
17 Q. Do you see where it says	17 THE WITNESS: As I said, yes, that
18 endometrial cancer panel?	will be a continually evolving number
19 A. I do.	19 as far as an absolute percentage
20 Q. Do you know whether or not she 04:05	20 BY ATTORNEY DAVIDSON: 04:07
21 received BART testing, B-A-R-T?	21 Q. Is this
22 A. I'm not aware if she did or did	22 ATTORNEY O'DELL: I'm sorry. He's
23 not, but certainly the endometrial cancer	23 not finished.
24 panel of the eleven genes, at least nine of	24 BY ATTORNEY DAVIDSON:
25 the eleven would be also strongly relevant 04:05	25 Q. Ms. Gallardo was not tested for 04:07
	2. 1.13. Callardo was not tosted for 01.07

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1 RAD51; correct?	1 associated with ovarian cancer because she
2 A. RAD51 was not part of the oncogene	2 wasn't tested for all of those genetic
3 DX panel, the endometrial panel.	3 mutations; correct?
4 Q. That would be part of comprehensive	4 A. Yeah, I can only evaluate the
5 panel for ovarian cancer; right? 04:08	5 testing results that were provided for 04:10
6 ATTORNEY O'DELL: Object to the	6 Ms. Gallardo.
7 form.	7 Q. Okay. Let's move on to
8 THE WITNESS: It may be part,	8 Ms. Judkins. You say in your report that
9 certainly. As we discussed earlier,	9 she had a VUS; right? Ovarian of unknown
10 the genetic testing field is evolving, 04:08	10 significance and PTEN? 04:10
and I think unfortunately most of	11 A. That's correct.
12 these patients, you know, are	12 Q. You concluded that her specific
observing that evolution in real time.	13 mutation is not associated with an increased
14 BY ATTORNEY DAVIDSON:	14 risk of ovarian cancer; right?
15 Q. Her panel also did not include 04:08	15 A. Well, I reported that there is no 04:10
16 BRIP1; right?	16 evidence to define that specific mutation as
17 A. That's correct.	17 being a pathogenic variant or has yet to be
18 Q. Also relevant to ovarian cancer;	18 associated with an increased risk of ovarian
19 right?	19 cancer. As I discussed in some of those
20 A. Yes, potentially. 04:08	20 supporting sentences as to why, just given 04:11
21 Q. Are you familiar with PALB2?	21 the number of variants that have that are
22 A. PAL2, yes.	22 known in PTEN being over 1,000 and an
Q. Also relevant to ovarian cancer?	23 additional little over 1,000 being annotated
24 A. I'd have to remind myself of the	24 as variants of unknown significance so that
25 details of that gene to give you an idea of 04:0	825 I think those statements remain as stated. 04:11
Page 287	Page 289
1 how relevant relative to some of the others	
	1 Q. Can you cite any scientific
2 that were tested for. Again, there's a	2 literature supporting your statements?
<ul><li>2 that were tested for. Again, there's a</li><li>3 continually growing list of genes involved</li></ul>	<ul> <li>2 literature supporting your statements?</li> <li>3 A. So I cited 26 is the report from</li> </ul>
<ul><li>2 that were tested for. Again, there's a</li><li>3 continually growing list of genes involved</li><li>4 in the initiation and progression of cancer,</li></ul>	<ul> <li>2 literature supporting your statements?</li> <li>3 A. So I cited 26 is the report from</li> <li>4 Judkins. These numbers were pulled from</li> </ul>
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2 that were tested for. Again, there's a 3 continually growing list of genes involved 4 in the initiation and progression of cancer, 5 both well known and, therefore, on these 04:09 6 panels and then becoming more well known as 7 more and more evidence is derived from 8 genomic technologies. 9 Q. So you can't rule out genetic 10 mutations as a cause of Ms. Gallardo's 04:09 11 ovarian cancer because she wasn't tested for 12 every possible gene; right? 13 ATTORNEY O'DELL: Object to the 14 form. 15 THE WITNESS: So, again, I'm not 04:09 16 aware of any gene mutation, whether it 17 be rearrangement or single nucleotide 18 genes that is directly causative of 19 ovarian cancer. There's a large body	2 literature supporting your statements?  3 A. So I cited 26 is the report from  4 Judkins. These numbers were pulled from  5 ClinVar. 04:11  6 Q. My question is: Can you cite  7 anything in the scientific literature to  8 support your position that her VUS was not a  9 pathogenic variant?  10 ATTORNEY O'DELL: Objection. 04:12  11 Asked and answered.  12 THE WITNESS: Yes, I can provide  13 that citation.  14 BY ATTORNEY DAVIDSON:  15 Q. What is that? 04:12  16 A. Again, based on the information  17 that's available in ClinVar, which is  18 included appropriate references when  19 applicable.
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2 that were tested for. Again, there's a 3 continually growing list of genes involved 4 in the initiation and progression of cancer, 5 both well known and, therefore, on these 04:09 6 panels and then becoming more well known as 7 more and more evidence is derived from 8 genomic technologies. 9 Q. So you can't rule out genetic 10 mutations as a cause of Ms. Gallardo's 04:09 11 ovarian cancer because she wasn't tested for 12 every possible gene; right? 13 ATTORNEY O'DELL: Object to the 14 form. 15 THE WITNESS: So, again, I'm not 04:09 16 aware of any gene mutation, whether it 17 be rearrangement or single nucleotide 18 genes that is directly causative of 19 ovarian cancer. There's a large body 20 of evidence, as we've been discussing, 04:09 21 around genetic testing and variance	2 literature supporting your statements?  3 A. So I cited 26 is the report from  4 Judkins. These numbers were pulled from  5 ClinVar. 04:11  6 Q. My question is: Can you cite  7 anything in the scientific literature to  8 support your position that her VUS was not a  9 pathogenic variant?  10 ATTORNEY O'DELL: Objection. 04:12  11 Asked and answered.  12 THE WITNESS: Yes, I can provide  13 that citation.  14 BY ATTORNEY DAVIDSON:  15 Q. What is that? 04:12  16 A. Again, based on the information  17 that's available in ClinVar, which is  18 included appropriate references when  19 applicable.  20 Q. Now, Ms. Judkins also had tumor 04:12  21 testing done; right?  22 A. I'm trying to recall. I didn't  23 mention the tumor testing in the report.
2 that were tested for. Again, there's a 3 continually growing list of genes involved 4 in the initiation and progression of cancer, 5 both well known and, therefore, on these 04:09 6 panels and then becoming more well known as 7 more and more evidence is derived from 8 genomic technologies. 9 Q. So you can't rule out genetic 10 mutations as a cause of Ms. Gallardo's 04:09 11 ovarian cancer because she wasn't tested for 12 every possible gene; right? 13 ATTORNEY O'DELL: Object to the 14 form. 15 THE WITNESS: So, again, I'm not 04:09 16 aware of any gene mutation, whether it 17 be rearrangement or single nucleotide 18 genes that is directly causative of 19 ovarian cancer. There's a large body 20 of evidence, as we've been discussing, 04:09 21 around genetic testing and variance 22 that increase the risk of. 23 BY ATTORNEY DAVIDSON: 24 Q. You can't rule out that	2 literature supporting your statements?  3 A. So I cited 26 is the report from  4 Judkins. These numbers were pulled from  5 ClinVar. 04:11  6 Q. My question is: Can you cite  7 anything in the scientific literature to  8 support your position that her VUS was not a  9 pathogenic variant?  10 ATTORNEY O'DELL: Objection. 04:12  11 Asked and answered.  12 THE WITNESS: Yes, I can provide  13 that citation.  14 BY ATTORNEY DAVIDSON:  15 Q. What is that? 04:12  16 A. Again, based on the information  17 that's available in ClinVar, which is  18 included appropriate references when  19 applicable.  20 Q. Now, Ms. Judkins also had tumor 04:12  21 testing done; right?  22 A. I'm trying to recall. I didn't  23 mention the tumor testing in the report.  24 Are you referring to the genomic instability
2 that were tested for. Again, there's a 3 continually growing list of genes involved 4 in the initiation and progression of cancer, 5 both well known and, therefore, on these 04:09 6 panels and then becoming more well known as 7 more and more evidence is derived from 8 genomic technologies. 9 Q. So you can't rule out genetic 10 mutations as a cause of Ms. Gallardo's 04:09 11 ovarian cancer because she wasn't tested for 12 every possible gene; right? 13 ATTORNEY O'DELL: Object to the 14 form. 15 THE WITNESS: So, again, I'm not 04:09 16 aware of any gene mutation, whether it 17 be rearrangement or single nucleotide 18 genes that is directly causative of 19 ovarian cancer. There's a large body 20 of evidence, as we've been discussing, 04:09 21 around genetic testing and variance 22 that increase the risk of. 23 BY ATTORNEY DAVIDSON:	2 literature supporting your statements?  3 A. So I cited 26 is the report from  4 Judkins. These numbers were pulled from  5 ClinVar. 04:11  6 Q. My question is: Can you cite  7 anything in the scientific literature to  8 support your position that her VUS was not a  9 pathogenic variant?  10 ATTORNEY O'DELL: Objection. 04:12  11 Asked and answered.  12 THE WITNESS: Yes, I can provide  13 that citation.  14 BY ATTORNEY DAVIDSON:  15 Q. What is that? 04:12  16 A. Again, based on the information  17 that's available in ClinVar, which is  18 included appropriate references when  19 applicable.  20 Q. Now, Ms. Judkins also had tumor 04:12  21 testing done; right?  22 A. I'm trying to recall. I didn't  23 mention the tumor testing in the report.

	Page 290		Page 292
1	Q. Uh-huh. What causes genomic	1	was located in a region of poor
2	instability in a tumor?	2	conservation.
3	A. Generally it's I'm trying to	3	Q. Did you research whether there are
4	think of the most appropriate way to phrase	4	any papers that tie MUTYH mutations to
5	it succinctly. So generally a loss of DNA 04:13	5	ovarian cancer? 04:16
6	repair of specific types can result in a	6	A. I believe I looked. That's where I
7	genomic instability measure, which is then	7	found the Rodriguez and Rojas, the Condello
8	looked at when there's either clear evidence	8	paper from 2023.
	of a homologous recombination deficiency or	9	Q. Are there any other papers that
10	other DNA repair or DNA maintenance, 04:14	10	find that MUTYH mutations carry an increased 04:16
11	deficiencies that exist in the tumor.	11	risk of ovarian cancer?
12	Because those pathways are not as	12	A. I didn't find any for this specific
1	well understood, a surrogate for that is	13	variant.
1	looking at various targets across the	14	ATTORNEY DAVIDSON: I've got
1	genome, so not specific to any one gene, and 04:14	15	nothing else at the moment. 04:17
1	looking at those targets across the genome	16	ATTORNEY O'DELL: Okay.
	to see what the stability of microsatellite	17	ATTORNEY DAVIDSON: Do you want to
	sites, small repeats, et cetera, and that	18	take a break?
	the stability or lack of stability in those	19	ATTORNEY O'DELL: Let's take a
1	sites gives an indication of the overall 04:14	20	short five-minute break, and we'll 04:17
	genomic instability and then can be	21	come back.
	summarized as a high, medium, low marker,	22	ATTORNEY DAVIDSON: Great.
1	again, depending on the test and how it's	23	(Recess taken from 4:17 p.m. to
25	done.  O. Can genomic instability be 04:14	24	4:51 p.m.)
23	<u> </u>	25	04:52
1	Page 291	1	Page 293
	indicative of a germline mutation?	1	EXAMINATION BY ATTORNEY O'DELL:
2	A. So certainly having genomic	3	
1	instability as a germline mutation, there	_	Q. Dr. Levy, I have a couple of
	may be an association with a germline		follow-up questions, a few follow-up questions. 04:52
	mutation, but it also may be a somatic or 04:15	6	1
7	spontaneous mutations as well.  Q. Let's talk about Ms. Newsome for a	7	questions that were asked about your CV and
	minute. She underwent testing on 25 genes;	Q Q	specifically number 167 on your CV listing
1	right?		your published literature. 167 you were
10	A. Using the MyRisk test from Myriad 04:15		asked about first author is Bhatia, and 04:52
	•		the name of the study is: Magnetic
12	Q. Her genetic testing revealed a		Resonance Imaging Characteristics in Case of
	variant known as MUTYH; right?		TOR1AIP1 Muscular Dystrophy published in
14	A. Correct.		2019.
15	Q. And that's associated with an 04:15	15	
	increased risk of some cancers; right?		record as Exhibit 17.
17	A. That's correct.	17	(Exhibit Number 17 was marked for
	Q. And you concluded that that's not	18	•
18	-		BY ATTORNEY O'DELL:
18 19	associated with an increased risk of ovarian		
19		20	O. Jennifer is going to put it in the 04.52
19 20	cancer; right? 04:15	20 21	
19 20 21	cancer; right? 04:15  A. Correct. I made that conclusion	21	chat.
19 20 21 22	cancer; right? 04:15  A. Correct. I made that conclusion based on this mutation being annotated as a	21 22	chat.  Dr. Levy, was this a published as a
19 20 21 22 23	cancer; right? 04:15  A. Correct. I made that conclusion	21 22	chat.  Dr. Levy, was this a published as a part of the work of a consortium?

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1 consortium?	Page 294	1 UDN	paper. This was a mul		Page 296

6 A. This was part of the Undiagnosed 2 where rather than indicating each of the 3 Disease Network. I think we covered this a 3 authors individually in the author line, it 4 bit earlier. I think in this case now being 4 was indicated as a consortium. This and the 5 able to see some of the members, I think I 04:53 5 previous paper do, in fact -- if you search 6 was roughly correct in the estimate of the 6 my name in PubMed, these papers come up 7 size of the consortium as was talked about 7 because the full consortia author list is 8 around a hundred or so members. And you can 8 indexed in PubMed. 9 also see the notation of some of the Q. Is that a reference that's 10 affiliations being both Vanderbilt 10 appropriately included in your curriculum 04:55 11 University, which was the main clinical site 11 vitae? 12 that we supported. As I mentioned, I was a 12 A. It is. 13 co-investigator on this grant for a period 13 Q. I'd also like to have you turn in 14 of about four years while I was at 14 your curriculum vitae, if you wouldn't mind, 15 HudsonAlpha. 04:53 15 Dr. Levy, to references 141 and 142. Just 04:56 Q. Were you one of the collaborators 16 let me know when you get there. A. One second. 17 on this paper? 17 18 A. Correct. That's right. 18 Q. 141 and 142. 19 Q. As a collaborator and as one of the 19 A. I'm looking at it in the amended 20 report on page 64. 20 principal investigators of the research, 04:54 04:56 21 21 would it be appropriate for you to list this Q. Okay. And are these two 22 publication on your curriculum vitae? 22 references -- first Da Mesquita published in 23 2018 and Dickinson published also in 2018. A. Again, it's a project I'd supported 24 and was part of on an ongoing basis. For 24 Are those papers that were published while 25 those not familiar with the Undiagnosed 04:54 25 you were head of HudsonAlpha? 04:56 Page 295 Page 297 1 Disease Network, very briefly this is a A. They were. And so in looking at 2 national consortium that provides advanced 2 these more carefully -- and I don't have a 3 genetic testing to patients that have 3 specific mechanistic explanation for the 4 undergone a diagnostic odyssey. It's mainly 4 author line. But if you look in the PubMed 5 very rare disease for both adults and 04:54 5 central reference, which these papers are in 04:57 6 pediatric cases. 6 full text in there, you can find Q. I'd like to now talk to you about 7 acknowledgments in both of my laboratory at 8 what was publication number 169 on your CV. 8 HudsonAlpha. 9 First author was Das, D-a-s, and it was So this was either a misannotation 10 published in 2019. It's entitled: The 10 as -- typically in a laboratory like mine is 04:57 11 Extracellular RNA Communication Consortium: 11 you would annotate all the publications that 12 Establishing Foundational Knowledge and 12 you supported as a laboratory and a subset 13 Technologies for Extracellular RNA Research, 13 of those publications you had more 14 published in Cell. 14 involvement with as a co-author. 15 We'll mark that as Exhibit 18. 04:54 15 What I would have to carefully go 04:57 (Exhibit Number 18 was marked for 16 16 back in my records and find out is if I was 17 identification.) 17 potentially an author on an earlier version 18 BY ATTORNEY O'DELL: 18 of the paper or if this was a misannotation Q. I'll provide you with a copy. Was 19 from both the laboratory versus my 20 this paper published by a consortium? 04:55 20 participation. 04:57 21 21 A. It was. But in these two examples there's 22 Q. Which consortium? 22 clear annotation of the participation of the A. The Extracellular RNA Communication 23 laboratory directly in these publications as 24 Consortium of which I was a member. Very 24 it's acknowledged. This was either a

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25 misannotation or a change in authorship from 04:57

25 similar to what we just discussed with the

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Page 301

3::	16-md-02738-MAS-RLS Document 330 PageID: 20		
	Page 298		
1	a pre-print and when it evolved into a final	1	totality of evidence to e
2	peer-reviewed version. I'd have to	2	biologically plausible n
3	potentially make that correction.	3	mechanisms by which t
4	Q. So let me ask you now to turn	4	ovarian cancer?
5	A. Maybe just address since it was 04:58	5	A. I did.
6	mentioned as questioned as whether or not	6	Q. You were asked a
7	this was ethical or not during the	7	questions about epidem
8	certainly as a it's something that needs	8	epidemiologic studies.
9	to be addressed from an annotation	9	review, did you review
10	perspective, but from an ethics perspective, 04:58	10	literature?
11	there's a very clear and reasonable	11	A. I did.
12	explanation as to how these got included.	12	Q. Specifically I'd li
13	Q. Dr. Levy, let me ask you to turn in	13	turn in your report to pa
14	your report, please, to page 2.	14	actually looking at 16.
15	A. Okay. 04:58	15	review paper I think wa
16	Q. And ask you what was your	16	exhibit, Exhibit 11, We
17	assignment? What were you asked to do in	17	published in 2021?
10	this asso?	10	A Vesh the ten of

1 1 1 18 this case? A. Oh, so I was asked to -- specific 20 to this report? 04:58

21 O. Yes.

1

22 A. It was to update the previous

23 report with respect to the literature

24 supporting the biological plausibility of

25 talc playing a role in ovarian cancer. 04:59

evaluate the

mechanism or

talc can result in

05:00

a number of

niology and

As a part of your

v the epidemiologic

05:00

like to ask you to

page 15 and 16,

Do you cite a

as marked as an 05:01

entzensen and O'Brien

A. Yeah, the top of page 16, yeah. 18

19 Q. And I'd like to ask you to look at

05:01 20 the Wentzensen and O'Brien publication.

21 Does it contain a comprehensive summary of

22 the epidemiologic data as of 2021?

A. Yes, it appeared -- it appears to

24 be a, as the title suggests, a summary of

25 the epidemiological evidence at the time of

Page 299

Q. Were you also asked to evaluate the

2 genetic testing of six plaintiffs?

A. That's correct. The six plaintiffs

4 we discussed earlier.

Q. And what was your methodology? In 04:59

6 terms of your general opinions, what was

7 your methodology in reaching those opinions?

A. The general methodology was I think

9 fairly standard in that it was a literature

10 review of the peer-reviewed literature 04:59

11 primarily, but secondarily to that also a

12 review of other available sources, again,

13 depending on whether I was looking at

14 citations, whether I was looking at

15 additional material in databases like 04:59

16 ClinVar.

17 Overall, it was meant to be a

18 systematic and as comprehensive as possible

19 review with a focus on that particular

20 request, which is evidence supporting the 05:00

21 role that talc may play in ovarian cancer.

22 I was not asked to provide opinions on

23 causation or focus on any one specific area

24 of the field.

25 Q. And specifically did you review the 05:00 1 publication which, as you stated, was 2021.

Q. Is it fair to say that the prior

3 studies that have been published on the

4 question of the genital use of talc and

5 ovarian cancer, the results were summarized

6 in the Wentzensen and O'Brien review paper?

7 A. That's correct. Mostly in table

8 form.

Q. If you'll look at Table 3 of the

10 paper, does it include the data and results 05:02

11 from the O'Brien pooled study of -- pooled

12 analysis of cohort studies?

13 A. It does.

14 Q. And is that something you

15 considered in reaching your opinions in this 05:02

16 case?

17 A. It does as part of the overall

18 literature and overall data that was

19 summarized in this paper.

20 Q. And specifically I'd like to direct 05:02

21 you to language on the same page, which is

22 page 7 of the copy I have of the paper. As

23 it relates to the association of genital use

24 of talc and serous ovarian cancer, what does

05:03 25 it say?

	Page 302		Ţ	Page 304
1	A. At the bottom of the first	1	accused you of plagiarizing aspects of your	uge 304
	column above Table 3 quoting the paper it	l .	report.	
	says: Overall these results consistently	3	So let me ask you: Did you	
	demonstrate that there was a positive	4	plagiarize any aspect of your expert report,	
	association between talc use and serous 05:03		either the 2018 version or the 2023 version?	05:06
	ovarian cancers and possibly also	6	A. To directly answer, no. To be	
7		7	clear, the questions focused on single and	
8	Q. Thank you.		individual sentences, not paragraphs or	
9	Then I'd like to direct you now to	9	passages. In both cases, again, getting	
10	page also page 16, sorry, of your report. 05:03	10	back to what was asked in the 2018, 2019	05:06
11	And you cite the Brieger study. Do you	11	report and in this report, the request was a	
12	recall that discussion?	12	review of the totality of information	
13	A. I do.	13	available. So that meant reviewing and	
14	Q. I'm not sure it was marked for the	14	reading and then consolidating a variety of	
	record. We will do that and put it in the 05:04	15	sources. 05:06	
	chat and mark it as Exhibit 19.	16	So for facts that were that are	
17	(Exhibit Number 19 was marked for		generally acceptable or quite well known, I	
18	identification.)	l	did not make an effort to make sure that	
	BY ATTORNEY O'DELL:	l .	those were all specifically cited. It's not	
20			a surprise that, again, those individual or 05:	07
	you include the Brieger paper as part of		singular sentences are worded in a similar	
	your report?		manner to what may appear what may have	
23	C	l .	been appeared in websites or other resources	
	about earlier of having as comprehensive a		that were reviewed during that process.	
23	review of the evidence regarding the role of 05:04	25	Q. Would it be fair to say for 05:07	
1	Page 303 talc in ovarian cancer, one of the themes	1	fundamental definitions that are just basic	Page 305
	that continually came up in that was the		definitions, that the same definition often	
	role of inflammation in cancer progression,	l .	appears in many citations, whether it be a	
1	and seeing and part of that searching		scientific reference, a website, or	
	discovered or came across this particular 05:04		something else? 05:07	
1	paper which was looking at	6	A. That's correct. For specific, I	
	inflammation-related risk scores associated	l .	think, summary facts, particularly as they	
	with ovarian cancer survival. I thought it		relate to either scientific principles or	
	was relevant to that same area of biological		simple medical positioning, the wording is	
	plausibility; so I included it as a 05:05	l .		)5:07
1	reference in the report.	l .	types of resources.	
12	Q. And on page on my copy, page 4,	12	Q. Now, I ask you now to turn to	
		13	page 13 of your report, please.	
	the paper in the introduction, do the		A. Okay.	
13	the paper in the introduction, do the authors specifically talk about chronic	14	11. Okuy.	
13 14		14 15	•	5:08
13 14 15	authors specifically talk about chronic	15 16	Q. And you were asked in the second paragraph about a reference to Trabert 2014	5:08
13 14 15	authors specifically talk about chronic inflammation and its role in initiation of 05:05	15 16	Q. And you were asked in the second 0	5:08
13 14 15 16 17	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?	15 16 17	Q. And you were asked in the second paragraph about a reference to Trabert 2014	5:08
13 14 15 16 17 18 19	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can	15 16 17 18 19	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.	5:08
13 14 15 16 17 18 19 20	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can directly cause DNA damage, which is 05:05	15 16 17 18 19 20	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.  A. Yes. Yeah. 05:08	5:08
13 14 15 16 17 18 19 20 21	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can directly cause DNA damage, which is 05:05 particularly relevant for cancer initiation	15 16 17 18 19 20 21	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.  A. Yes. Yeah. 05:08  Q. And counsel for Johnson & Johnson	95:08
13 14 15 16 17 18 19 20 21 22	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can directly cause DNA damage, which is 05:05 particularly relevant for cancer initiation and progression.	15 16 17 18 19 20 21 22	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.  A. Yes. Yeah. 05:08  Q. And counsel for Johnson & Johnson suggested that you had not included more	5:08
13 14 15 16 17 18 19 20 21 22 23	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can directly cause DNA damage, which is 05:05 particularly relevant for cancer initiation and progression.  Q. You were also asked a number of	15 16 17 18 19 20 21 22 23	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.  A. Yes. Yeah. 05:08  Q. And counsel for Johnson & Johnson suggested that you had not included more recent studies that evaluated the uses	5:08
13 14 15 16 17 18 19 20 21 22 23 24	authors specifically talk about chronic inflammation and its role in initiation of 05:05 cancer?  A. The authors do, and they cite chronic inflammation as being able to quoting the paper, chronic inflammation can directly cause DNA damage, which is 05:05 particularly relevant for cancer initiation and progression.	15 16 17 18 19 20 21 22 23 24	Q. And you were asked in the second paragraph about a reference to Trabert 2014 in regard to the use of aspirin. Do you see that? The second paragraph, second to last line.  A. Yes. Yeah. 05:08  Q. And counsel for Johnson & Johnson suggested that you had not included more	5:08

	Page 306	Page 308
1	Do you recall those questions?	1 meta-analysis like was done in this paper.
2	A. I do.	2 Q. Thank you.
3	Q. And, in fact, you know, looking at	Then I'd like now to turn your
4	your paragraph, have you cited up-to-date	4 attention to the Taher paper, and Taher was
	literature regarding the use of aspirin and 05:09	5 marked previously as Exhibit 9 to the 05:11
	ovarian cancer?	6 deposition. I'll hand it to you.
7	A. There's a second reference, the	7 On page 98 you were asked about
8	Hurwitz and Webb 2023 reference that's at	8 Table 4 and specifically the GRADE analysis,
1	the bottom of that paragraph.	9 G-R-A-D-E analysis. You offered to explain
10	Q. I'm going to hand you the Hurwitz 05:09	10 your opinion about the relevance of that, 05:12
11	paper. We'll mark that as Exhibit 20.	11 and you didn't have an opportunity. So I
12	(Exhibit Number 20 was marked for	12 wanted to give that to you now.
13	identification.)	Does what was stated in the paper
14	BY ATTORNEY O'DELL:	14 about the GRADE analysis affect your opinion
15	Q. Is Exhibit 20 the paper that you 05:09	15 that this is something that should be 05:12
16	reference there?	16 considered in reaching your conclusions in
17	A. Yes.	17 this case?
18	Q. And when was it published?	18 A. Well, I think the totality of the
19	A. July 2022. First online. I think	19 information in the paper is important. The
20	that's where the disconnect is to the final 05:09	20 earlier questions focused on the specific 05:12
21	print date which is later in 2023.	21 grades that are part of the GRADE working
22	Q. Okay. And was this a study that	22 group. I think it was certainly appropriate
	examined aspirin to determine if the use of	23 for a paper like this to provide a clear
	aspirin could decrease the risk of ovarian	24 framework and reference to that framework
25	cancer? 05:10	25 and detail that framework appropriately for 05:12
	Page 307	Page 309
1	A. It was a meta-analysis looking at	Page 309  1 their conclusions. And appropriate to how
	A. It was a meta-analysis looking at that question.	<ul><li>1 their conclusions. And appropriate to how</li><li>2 they applied them.</li></ul>
2 3	<ul><li>A. It was a meta-analysis looking at that question.</li><li>Q. And and what were the</li></ul>	<ol> <li>their conclusions. And appropriate to how</li> <li>they applied them.</li> <li>The opportunity that we didn't have</li> </ol>
2 3	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?	<ol> <li>their conclusions. And appropriate to how</li> <li>they applied them.</li> <li>The opportunity that we didn't have</li> <li>to address at the earlier question was the</li> </ol>
2 3 4 5	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10	<ol> <li>their conclusions. And appropriate to how</li> <li>they applied them.</li> <li>The opportunity that we didn't have</li> <li>to address at the earlier question was the</li> <li>other two footnotes that were provided,</li> </ol>
2 3 4 5 6	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian	<ol> <li>their conclusions. And appropriate to how</li> <li>they applied them.</li> <li>The opportunity that we didn't have</li> <li>to address at the earlier question was the</li> <li>other two footnotes that were provided,</li> <li>footnotes C and D in Table 4, which those</li> </ol>
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2 3 4 5 6 7 8 9 10 11	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the 05:10 presence of most other ovarian cancer risk	1 their conclusions. And appropriate to how 2 they applied them. 3 The opportunity that we didn't have 4 to address at the earlier question was the 5 other two footnotes that were provided, 05:13 6 footnotes C and D in Table 4, which those 7 begin to describe that the two things. 8 Footnote C quotes 24 studies were case 9 control studies indicating recall bias may 10 be an issue given long latency periods. 05:13 11 That's always going to be a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?	1 their conclusions. And appropriate to how 2 they applied them. 3 The opportunity that we didn't have 4 to address at the earlier question was the 5 other two footnotes that were provided, 05:13 6 footnotes C and D in Table 4, which those 7 begin to describe that the two things. 8 Footnote C quotes 24 studies were case 9 control studies indicating recall bias may 10 be an issue given long latency periods. 05:13 11 That's always going to be a 12 challenge with a framework like GRADE. 13 Anything with long latency periods or cohort 14 studies by the nature of the GRADE framework 15 are going to be you're going to see a 05:13 16 lower overall score in terms of the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to their two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework framework are going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the 05:10 presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive of that. If chronic inflammation plays a	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to other two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework are going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive of that. If chronic inflammation plays a significant role in an aspect, not the only aspect, but an aspect, that you would 05:11 expect at some level is if you can diminish	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to other two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework ser going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE framework. GRADE frameworks, stated simply, are most appropriate for randomized control trials. The totality of the evidence now 05:13
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive of that. If chronic inflammation plays a significant role in an aspect, not the only aspect, but an aspect, that you would 05:11 expect at some level is if you can diminish inflammation, then you may change in some	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to other two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework tare going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE framework. GRADE frameworks, stated simply, are most appropriate for randomized control trials. The totality of the evidence now 05:13 regarding talc, it would be impossible or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive of that. If chronic inflammation plays a significant role in an aspect, not the only aspect, but an aspect, that you would 05:11 expect at some level is if you can diminish inflammation, then you may change in some cases the overall either progression or risk	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to other two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework for are going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE framework. GRADE frameworks, stated simply, are most appropriate for randomized control trials. The totality of the evidence now 05:13 regarding talc, it would be impossible or unethical to run a randomized control trial based on talc exposure. You do the best you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. It was a meta-analysis looking at that question.  Q. And and what were the conclusions?  A. The conclusions were that this was 05:10 the largest to date aspirin use and ovarian cancer study, and the authors conclude, quoting the authors, provides evidence that frequent aspirin use is associated with lower ovarian cancer risk regardless of the presence of most other ovarian cancer risk factors.  Q. And is that paper supportive of your opinions in this case that one of the biologic mechanisms of ovarian cancer is chronic inflammation?  A. Correct, it is. It is supportive of that. If chronic inflammation plays a significant role in an aspect, not the only aspect, but an aspect, that you would 05:11 expect at some level is if you can diminish inflammation, then you may change in some	their conclusions. And appropriate to how they applied them. The opportunity that we didn't have to address at the earlier question was the to other two footnotes that were provided, 05:13 footnotes C and D in Table 4, which those begin to describe that the two things. Footnote C quotes 24 studies were case control studies indicating recall bias may be an issue given long latency periods. 05:13 That's always going to be a challenge with a framework like GRADE. Anything with long latency periods or cohort studies by the nature of the GRADE framework tare going to be you're going to see a 05:13 lower overall score in terms of the certainty of the evidence through the GRADE framework. GRADE frameworks, stated simply, are most appropriate for randomized control trials. The totality of the evidence now 05:13 regarding talc, it would be impossible or

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1 studies were indeed cohort studies and were	1 from an epidemiology perspective by not
2 assessed as having a relatively short 3 follow-up period. So, therefore, latency	2 crossing the 95th confidence interval 1, 3 that's a positive association.
4 again comes into play here. The conclusions	4 Then for women who regularly used
5 in the paper indicating that there remains a 05:14	5 talc or douched, that rose to 1.53 with a 05:16
6 positive association, even though the GRADE	6 95th percent confidence interval of 1.11 to
7 score was indicated as very low, the authors	7 2.10.
8 took quite a bit of effort to explain why it	8 Q. Was the inclusion of O'Brien and
9 was low and indicate the relative	9 D'Aloisio 2019 simply an error in citation?
10 positioning on the application of the GRADE 05:14	
11 framework to the study design.	11 the either in wording or in citation,
12 Q. Thank you. You were also asked	12 since that was uterine cancer. It was in
13 about on page 16 of your report,	13 the same methodological space or the same
14 specifically studies that looked at talc and	14 biological space looking at talc use and
15 the use of not only talc but store-bought 05:14	15 douching. 05:17
16 douches, as well as a combination of both.	16 Q. You were also asked a series of
17 Do you see that? You cited Gabriel and	17 questions about some Tweets. I think they
18 Vitonis in 2019 and O'Brien and D'Aloisio in	18 were asked in the framework of whether it
19 2019.	19 was your current employer. One, are you
20 Do you see that? 05:15	20 familiar with the Tweets that were being 05:17
21 A. I do.	21 referenced?
22 Q. I want to mark for the record what	22 A. I'm assuming since we didn't
23 is going to be Exhibit 21, which is the	23 introduce the Tweets as an exhibit, I am
24 Gabriel 2019 study.	24 aware, though. There was a long-standing
25 ///	25 series of what I actually think we were 05:18
Page 311	Page 313
	_
1 (Exhibit Number 21 was marked for	1 quite proud of when I was at HudsonAlpha.
2 identification.)	<ul><li>1 quite proud of when I was at HudsonAlpha.</li><li>2 This was work that was done in collaboration</li></ul>
<ul><li>2 identification.)</li><li>3 BY ATTORNEY O'DELL:</li></ul>	<ol> <li>quite proud of when I was at HudsonAlpha.</li> <li>This was work that was done in collaboration</li> <li>with my group. That was providing access to</li> </ol>
<ul><li>2 identification.)</li><li>3 BY ATTORNEY O'DELL:</li><li>4 Q. Dr. Levy, take a look at that for a</li></ul>	<ol> <li>quite proud of when I was at HudsonAlpha.</li> <li>This was work that was done in collaboration</li> <li>with my group. That was providing access to</li> <li>genetic testing to women actually men</li> </ol>
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> <li>7 A. Okay.</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian 7 risk testing more accessible.
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> <li>7 A. Okay.</li> <li>8 Q. Does the Gabriel 2019 find a</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian 7 risk testing more accessible. 8 First we did that across the state
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> <li>7 A. Okay.</li> <li>8 Q. Does the Gabriel 2019 find a</li> <li>9 positive association between talc use with</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian 7 risk testing more accessible. 8 First we did that across the state 9 of Alabama and then expanded that more
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> <li>7 A. Okay.</li> <li>8 Q. Does the Gabriel 2019 find a</li> <li>9 positive association between talc use with</li> <li>10 or without douching in ovarian cancer? 05:15</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian 7 risk testing more accessible. 8 First we did that across the state 9 of Alabama and then expanded that more 10 broadly throughout the Southeast actually 05:18
<ul> <li>2 identification.)</li> <li>3 BY ATTORNEY O'DELL:</li> <li>4 Q. Dr. Levy, take a look at that for a</li> <li>5 moment. When you have time to take a look, 05:15</li> <li>6 I'll ask you a question.</li> <li>7 A. Okay.</li> <li>8 Q. Does the Gabriel 2019 find a</li> <li>9 positive association between talc use with</li> <li>10 or without douching in ovarian cancer? 05:15</li> <li>11 A. It does.</li> </ul>	1 quite proud of when I was at HudsonAlpha. 2 This was work that was done in collaboration 3 with my group. That was providing access to 4 genetic testing to women actually men 5 were eligible as well. They were in later 05:18 6 years. It was to make breast and ovarian 7 risk testing more accessible. 8 First we did that across the state 9 of Alabama and then expanded that more 10 broadly throughout the Southeast actually 05:18 11 for a number of years. Ultimately it was
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1 information that was being provided to the	1 the same category.
2 public and collaborators, was the focus on	2 My analysis and the effort of this
3 the information that genetic testing was	3 report was, again, as been stated numerous
4 inaccurate as was suggested?	4 times, was not meant to provide a causation
5 A. No, I think the focus wasn't on the 05:19	5 linkage between any specific mutation or 05:21
6 accuracy or inaccuracy of a specific test.	6 even specific environmental exposure to an
7 It was more a focus on highlighting that	7 exact causative event or initiation event or
8 rapid revolution of testing technologies.	8 even progression event. It was instead
9 And in this case, the testing was done	9 focusing on that biologically plausible
10 across a cohort of genes. From a technical 05:19	10 mechanism. 05:21
11 perspective, BRCA1 and 2 and even genes like	So the way that I and based on
12 P53, there are challenges to testing them	12 my experience and what we've been talking
13 accurately and testing them comprehensively	13 about in my past history and career in terms
14 just because of the challenges around their	14 of research into different genetic risk
15 sequences. There is a lot of those releases 05:19	15 factors for a variety of diseases, including 05:21
16 and things were really indicating the	16 different cancer types, the way I looked at
17 advancements that were being made in the	17 this was the presence or absence of those
18 testing space.	18 mutations would, of course, impact the
We were trying to be attractive to	19 baseline relative risk to a patient.
20 the public in terms of accessibility of 05:20	Or another way to state that is a 05:22
21 testing so that those that were interested	21 patient with a BRCA1 or 2 mutation, just
22 in it could know that they could access it,	22 using those as two simple examples, would be
23 and they were also trying to address	23 more vulnerable. If that person is more
24 technological questions about are we doing 25 it accurately, why have it done at 05:20	<ul><li>24 vulnerable to other exposures, if you</li><li>25 introduce a mechanism of chronic</li><li>05:22</li></ul>
3, 3	
Page 315	Page 317
1 Hydron Alpho guartions like that We would	
1 HudsonAlpha, questions like that. We would	1 inflammation, like we have provided that
2 have to go through specifics of each of	<ul><li>1 inflammation, like we have provided that</li><li>2 plausible mechanism for talc inducing that.</li></ul>
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	D 210		D 220
1	Page 318 variants. It wasn't meant to be it's not	1	Page 320 imbalance, and large scale state transition.
1	an either/or. In fact, I would look at this	$\frac{1}{2}$	So those three biomarkers again,
1	as those individuals with those mutations	_	I'm just quoting from the paper or the
	would very much be more susceptible to any		results are associated with essentially a
	of the negative effects of these 05:23		DNA repair defect. Stated in laymen's 05:27
	environmental factors.		terms, this is a measure of how damaged the
7	Q. So you were asked a question		overall genome is in the tumor. This is
	about and it was marked as Exhibit 15		used as an indicator that may modulate
	Ms. Bondurant's plaintiff fact sheet. I'll		specifically what chemotherapeutic agents or
1	share my screen to show the chart that I 05:23		what targeted therapies the patient may be 05:27
	believe that counsel for Johnson & Johnson	11	
	showed you.	1	becomes available, it is associated with
13	Do you recall this?		different expectations for outcome in
14			survivorship.
15	Q. How many first degree relatives are 05:24	15	Q. Does this test result have any 05:27
1	listed in this chart?		relevance to whether she had an inherited
17	A. Two.		mutation?
18	Q. Okay. Thank you.	18	A. No. So my reading of this, because
19	I'm going to ask you	1	they're specifically targeting single
20	(Discussion off the record.) 05:24		nucleotide polymorphisms, which are variants 05:27
21			that have a higher prevalence in the overall
22	Q. I want to ask you, Dr. Levy,		population. Think of this as more they're
	specifically about Ms. Judkins. You were		kind of looking at the structure of the
	asked a series of questions about		genome rather than the function of the
	Ms. Judkins and specifically that there was 05:25		genome, at least in this case. I'm not 05:28
	Page 319		Page 321
1	a report in her medical records, and we'll	1	aware of the ability to use this as a
2	turn to it. It was I'm not sure it was	2	testing modality for germline mutations.
3	marked, but it was entitled Myriad Genomic	3	Q. You referenced during your
4	Instability Status Test Results.	4	testimony earlier ClinVar. What is ClinVar?
5	Do you recall that? 05:25	5	A. So ClinVar is a public database 05:28
6	A. Yes, I do.	6	that is contributed to by all of the
7	Q. And if you want to turn to it,	7	laboratories that we've talked about today,
8	Doctor, and whatever you're ready, just let	8	whether it be Myriad, GDX, Invitae, academic
9	me know.	9	laboratories, government laboratories.
10	A. I thought we had it open from 05:25	10	What it acts as is it's a 05:28
11	before. Here it is, yeah.	11	repository of variants that either are known
12	Q. Let me just ask the question:	12	to have clinical significance or where
13	What's the relevance of this test? What	13	there's gathering evidence on a clinical
	does it mean in relation to your evaluation		significance. What it provides is almost a
15	of Ms. Judkins' genetic testing? 05:26		realtime resource to evaluate the 05:28
16	A. Well, so this is specifically		probability or the likelihood that a variant
1	performed on the tumor. So you would not be	1	may or may not be associated.
	able to infer anything about the her	18	There's three broad classifications
1	germline genetics specifically from this		of variants: Things that are known to be
	test, other than what may appear in the 05:26		pathogenic meaning that there's strong 05:29
	background kind of the normal. This		evidence to associate them to one or more
	specific test, the Myriad genomic		diseases, variants that are likely
	instability status as explained on the paper		pathogenic so still evidence but it may not
1	that it is a measure of three biomarkers,		be as strong, and then variants of unknown
25	loss of heterozygosity, telomeric allelic 05:26	25	significance which means it's a variant 05:29

Page 322	Page 324
1 where evidence is still building.	1 review the contributions and see who are the
2 It could go either way. It could	2 most common contributors to that. It's not
3 be benign. It could be significant, may	3 surprising that it's consortia based. The
4 depend on the genetic background, may depend	4 Undiagnosed Disease Consortium has
5 on the presence of other variants. There's 05:29	5 contributed many, many variants. My time at 05:31
6 just not enough evidence to conclusively	6 HudsonAlpha as part of some of our clinical
7 determine simply based on the presence or	7 or pediatric sequencing efforts where we've
8 absence of that variant what that variant is	8 helped diagnose a little over 300 children
9 doing.	9 with a variety of pediatric disorders, those
10 And then finally the last category	10 variants are contributed. 05:31
11 is benign. It's a variant that's known to	So it's a necessity. It's a
12 be or I should say likely benign. Again,	12 necessity to continue to evolve to allow any
13 any of those variant classifications can	13 reasonable assessment of these variants.
14 change. And what you see evolving in	Maybe to describe it a little
15 ClinVar as more and more evidence and more 05:29	15 differently, in the absence of ClinVar the 05:32
16 and more sequencing and more and more	16 only avenue you'd have is waiting for
17 testing is done is now the growing need to	17 publications to come out. As we know from a
18 have ClinVar separated soon by ancestry or	18 study initiation all way through peer review
19 ethnicity because variants that have better	19 to publication can be many months. So you
20 significance in one population may be either 05:30	20 can imagine the time delay that would 05:32
21 higher or lower significance in other	21 happen. You still would have to be able to
22 populations.	22 find that variant and find that association.
23 For the time being it just fills a	So for all of those reasons,
24 need of having a publicly available	24 ClinVar has become a significant value in
25 reasonably comprehensive resource. Most 05:30	25 the space and used at a much, much higher 05:32
Page 323	Page 325
1 importantly for the lines of evidence that	1 frequency than waiting for a particular
2 are put in there are, they're traceable.	2 study to come out and say prove an
3 You can see who put them in, what it was	3 association or disprove an association with
4 based on, how many patients, what the	4 a particular variant.
5 frequency of these variants are. I would 05:30	5 Q. Who maintains ClinVar? 05:32
6 say most clinicians, genetic counselors, and	6 A. It's a government resource; so the
7 researchers will use ClinVar in combination	7 NIH maintains it.
8 with databases like EB SNP or a variety of	8 Q. Just in summary, based on your
9 other sequencing databases to make a final	9 review of the medical records that you had
10 assessment as to a variant's likelihood or 05:30	10 for these six bellwether plaintiffs, what is 05:33
11 non-likelihood of contributing to a	11 your opinion about whether there was
12 particular genotype.	12 evidence that they had a pathogenic mutation
13 Q. Is it generally accepted in your	13 that related to ovarian cancer or even had
14 field to use ClinVar as a repository of	14 an association for an increased risk of
15 information that's known about a specific 05:31	15 ovarian cancer? 05:33
16 mutation?	16 A. Yeah, so I think if you look at
17 A. It is. You can imagine if genetic	17 this, the testing that was done in the
18 testing results were purely just on paper,	18 context of the types of testing modalities
19 and their association with a particular	19 including clinical testing that my primary
20 phenotype would become extraordinarily 05:31	20 experience is in, my bias has always been to 05:33
21 onerous to keep track of even in a single	21 more comprehensive testing, whole genome
22 laboratory.	22 sequencing, whole exome sequencing, et
23 So by creating this public	23 cetera, where you can then better answer the
, , ,	
24 resource, there's been wide adoption and, in 25 fact, substantial contribution. Anyone can 05:31	<ul> <li>24 question have you left any stones unturned.</li> <li>25 The reality of these plaintiffs are 05:33</li> </ul>

	2 22	D 000
1	Page 326 that the testing that was done is what it	Page 328 1 translational medicine. I drove an interest
1	is. It is what was available. In many	2 in developing resources to have a closer
	cases as was discussed, 11 to 25 genes.	3 connection to patient care.
1	These are limited perspectives on testing.	4 So while I was as HudsonAlpha, I
1	So it is difficult to be able to give a 05:34	5 was fortunate to have actually founded a 05:36
	comprehensive and conclusive genetic	6 clinical laboratory while there. That
	predisposition score to any of these	7 clinical laboratory was licensed and
1	patients.	8 accredited as a clinical lab. We supported
9	What we know is that the genes that	9 the, of course, Undiagnosed Disease Network
-	are most strongly associated and most 05:34	10 that did involve return of results. I was 05:36
	clearly annotated in ClinVar, none of these	11 also fortunate to have colleagues that were
	six individuals had variants in those genes.	12 genetic counselors and physicians that were
	Again, it doesn't indicate that they don't	13 under my supervision as participants in that
	have other risk wheels and genes that were	14 lab.
1	untested. They weren't tested. Therefore, 05:34	15 Through some generous donations 05:36
1	it wasn't able to be evaluated.	16 there's a Smith Family Clinic for Genomic
17	As I said earlier, I think the	17 Medicine that now exists at HudsonAlpha. I
18	status of that is not unimportant, but it	18 know it's the only one in the southeast.
	doesn't change the opinions or the	19 It's one of the only ones in the country
20	biological plausibility or mechanistic 05:34	20 that is a clinic specifically focused on 05:36
	aspects that were discussed in the report.	21 genomic medicine and precision medicine.
22	It would only change, as I mentioned	As I've mentioned, we've had
23	earlier, that relative risk as it relates to	23 hundreds of pediatric cases and many adult
24	environmental exposures like we've been	24 cases as well through these different
25	discussing around talc. 05:35	25 consortia analyzed there. What was very 05:37
	Page 327	Page 329
1		
1	Q. Last question. You were asked	1 rewarding for me was I sat very much on the
2	about genetic counseling and whether you're	_
2 3	about genetic counseling and whether you're a genetic counselor. Would you tell us your	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the
2 3 4	about genetic counseling and whether you're a genetic counselor. Would you tell us your experience with genetic counselors,	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the 4 resolution of that technology forward.
2 3 4 5	about genetic counseling and whether you're a genetic counselor. Would you tell us your experience with genetic counselors, overseeing genetic counselors. What's your 05:35	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the 4 resolution of that technology forward. 5 As evidence of that, my laboratory 05:37
2 3 4 5 6	about genetic counseling and whether you're a genetic counselor. Would you tell us your experience with genetic counselors, overseeing genetic counselors. What's your 05:35 expertise as a person with your training,	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the 4 resolution of that technology forward. 5 As evidence of that, my laboratory 05:37 6 was one of the I think was the first in
2 3 4 5 6 7	about genetic counseling and whether you're a genetic counselor. Would you tell us your experience with genetic counselors, overseeing genetic counselors. What's your observed expertise as a person with your training, experience, and position whether at	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the 4 resolution of that technology forward. 5 As evidence of that, my laboratory 05:37 6 was one of the I think was the first in 7 the United States to be CAP accreted for
2 3 4 5 6 7 8	about genetic counseling and whether you're a genetic counselor. Would you tell us your experience with genetic counselors, overseeing genetic counselors. What's your 05:35 expertise as a person with your training, experience, and position whether at HudsonAlpha or at Element, how is your	1 rewarding for me was I sat very much on the 2 technology side, continually pushing the 3 accessibility, the reliability, and the 4 resolution of that technology forward. 5 As evidence of that, my laboratory 05:37 6 was one of the I think was the first in 7 the United States to be CAP accreted for 8 whole genome sequencing, and this was in
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Page 330	Page 332	
1 this career progression is why I	1 ATTORNEY O'DELL: Noah, I'm sure	
2 transitioned to Element is very simple. As	2 you're putting it in the chat as well.	
3 was asked in the earlier questions, there	3 I see it now. Thank you.	
4 are limitation to current genetic testing.	4 ATTORNEY EPSTEIN: Yeah, it should	
5 There are limitations to our ability to 05:38	5 be there. 05:40	
6 assay residual disease and other things.	6 ATTORNEY O'DELL: Thank you.	
7 What I'm able to help Element do as	7 ATTORNEY EPSTEIN: No problem.	
8 a private company is we're bringing forward	8 THE WITNESS: Again, I'd have to	
9 novel technologies that are not only looking	9 look. I think this was similar to	
10 at nucleic acid or only looking at protein. 05:38	what we discussed earlier. Yes, same. 05:41	
11 We're looking at a full spectrum and a	So if you notice on page 1009, under	
12 multi-ohmic perspective including cell	library prep and sequencing where it	
13 morphology and the ability to detect	references the HudsonAlpha Genomic	
14 individual cells. Instead of looking for	14 Services Laboratory, Huntsville,	
15 one needle in a haystack, say a specific 05:38	15 Alabama, my laboratory supported the 05:41	
16 mutation, we're looking for all of them.	16 sequencing work.	
17 We're looking at a multi-modal fashion.	17 As I was explaining about the	
18 We publicly released information on	18 other two, this is a similar situation	
19 the platforms that will be launched later	where either a change in authorship or	
20 this year, but our goal is to fundamentally 05:38	20 misannotation from a 05:41	
21 change the resolution with which we can do	21 laboratory-supported publication	
22 particularly cancer analysis.	rather than one I was a co-author on.	
23 I fully expect at some point I'll	23 BY ATTORNEY DAVIDSON:	
24 likely go back to an academic pursuit, but	24 Q. So is it your position that it's	
25 in the meantime now I'm able to transition 05:39	25 appropriate for you to list on your CV that 05:42	
Page 331  1 to developing technology that, when widely	Page 333  1 you were an author of any paper that happens	
2 deployed, can help an even greater number of	2 to mention your laboratory?	
3 patients or researchers than I've been able 4 to do so far.	3 ATTORNEY O'DELL: Objection to	
	4 form. 5 THE WITNESS: No, not at all. In 05:42	
5 Q. Thank you. I don't think I have 05:39 6 anything further, Doctor. Thank you.	· · · · · · · · · · · · · · · · · · ·	
7 ATTORNEY DAVIDSON: What exhibit	, , , , , , , , , , , , , , , , , , , ,	
8 number are we up to?	<ul><li>7 would fall into this type of category.</li><li>8 As I said, I think this was either a</li></ul>	
9 THE CERTIFIED STENOGRAPHER: We've	9 misannotation or a change in	
10 marked up through 21. 05:39	10 authorship during the development of 05:42	
11 ATTORNEY DAVIDSON: What number	11 the paper.	
12 was Hurwitz?	12 BY ATTORNEY DAVIDSON:	
13 ATTORNEY EMMEL: 20.	13 Q. What's a misannotation?	
14 ATTORNEY DAVIDSON: 20?	14 A. So in the process of gathering	
15 ATTORNEY EPSTEIN: 20. 05:39	15 papers that have citations like this as well 05:42	
16 ATTORNEY DAVIDSON: I'd like to	16 as doing searches for papers that come out	
mark as Exhibit 22 a paper from	17 during as we've been describing, the	
18 Papanek that's item 154 on your CV.	18 development of papers there's initiation of	
19 (Exhibit Number 22 was marked for	19 project especially if it's a multiple	
20 identification.)	20 institution or multiple authors, and then 05:42	
21	21 there's a period of time of that	
22 FURTHER EXAMINATION	22 development, submission, revision.	
23 BY ATTORNEY DAVIDSON:	23 During revisions it's often that	
24 Q. Dr. Levy, what was your role in	24 some experiments are removed. Others are	
25 this paper? 05:40	25 added. So the papers evolve over that time. 05:42	
25 this paper? 05:40	25 added. So the papers evolve over that time. 05:42	

D 224	D 22
Page 334  1 In the case of certainly as not appearing	Page 33  1 BY ATTORNEY DAVIDSON:
2 on the author list, this should not be	2 Q. You consider yourself to be a
3 indicated as part of the CV as an author or	3 co-author of any paper that lists the
4 co-author on that paper, and I'll have to	4 consortium which you were one of up to a
5 make that adjustment. 05:43	5 hundred members? 05:44
6 But in explaining as to how this	6 ATTORNEY O'DELL: Object to the
7 arrived there and just providing that	7 form.
8 explanation as to where this may have come	8 THE WITNESS: As a member of that
9 from. So it's not that I had no involvement	9 consortium as a member of that
10 in this paper. It's that the paper 05:43	10 consortium, then yes, I am a co-author 05:44
11 ultimately in its final peer-reviewed form,	on the paper per the policies that
12 I was not an author on that paper.	were described for those consortia and
13 Q. But you testified that you were	the relative contributions.
14 listed as an author in a draft of this	14 BY ATTORNEY DAVIDSON:
15 paper, Doctor? 05:43	
16 A. No, I wouldn't testify to that	
17 today.	<ul><li>16 paper, Exhibit 20. Does that paper indicate</li><li>17 anywhere that the protective effects of</li></ul>
	· · ·
18 Q. Okay. Are you aware, Doctor, that	18 aspirin have to do with inflammation?  19 A. Does it indicate that the
19 there's 36 papers on your CV where you're 20 not listed as an author? 05:43	
	20 protective effects of aspirin have to do 05:45
21 ATTORNEY O'DELL: Object to the 22 form.	21 with inflammation?
	Q. Or anti-inflammation?
<ul><li>23 BY ATTORNEY DAVIDSON:</li><li>24 O. Not just the four or five we</li></ul>	A. That is the only known activity of
	24 aspirin that's been is as a non-steroidal
, , , , , , , , , , , , , , , , , , ,	25 anti-inflammatory. 05:45
Page 335  ATTORNEY O'DELL: Object to the	Page 33  1 Q. Is there any reference to
2 form.	2 inflammation in that paper?
	3 A. Yes. Reference 3.
THE WITNESS: No, I'd be very surprised that there's that number.	4 Q. In the paper itself?
<u> </u>	5 A. Correct. 05:45
<ul> <li>In fact, I would be very confident 05:44</li> <li>that that's a vast overestimation of</li> </ul>	6 Q. I didn't ask in the references. I
7 these type of events. 8 BY ATTORNEY DAVIDSON:	7 asked in the paper itself. Is there any
ODIATIONNET DAVIDSON:	Q reference to inflammation?
	8 reference to inflammation?
9 Q. Do you consider yourself to be an	9 A. There is, yes.
9 Q. Do you consider yourself to be an 10 author of a paper if HudsonAlpha Genomic 05:44	9 A. There is, yes. 10 Q. Where? 05:46
9 Q. Do you consider yourself to be an 10 author of a paper if HudsonAlpha Genomic 05:44 11 Services Laboratory is listed in the	9 A. There is, yes. 10 Q. Where? 05:46 11 A. In the introduction where chronic
9 Q. Do you consider yourself to be an 10 author of a paper if HudsonAlpha Genomic 05:44 11 Services Laboratory is listed in the 12 acknowledgements?	9 A. There is, yes. 10 Q. Where? 05:46 11 A. In the introduction where chronic 12 inflammation likely plays a key role in
9 Q. Do you consider yourself to be an 10 author of a paper if HudsonAlpha Genomic 05:44 11 Services Laboratory is listed in the 12 acknowledgements? 13 ATTORNEY O'DELL: Object to the	9 A. There is, yes. 10 Q. Where? 05:46 11 A. In the introduction where chronic 12 inflammation likely plays a key role in 13 ovarian carcinogenesis.
9 Q. Do you consider yourself to be an 10 author of a paper if HudsonAlpha Genomic 05:44 11 Services Laboratory is listed in the 12 acknowledgements? 13 ATTORNEY O'DELL: Object to the 14 form. Misstates his testimony.	9 A. There is, yes. 10 Q. Where? 05:46 11 A. In the introduction where chronic 12 inflammation likely plays a key role in 13 ovarian carcinogenesis. 14 Q. I'm sorry. Where are you reading?
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	D 440		5 00
1	Page 338 ATTORNEY O'DELL: No, it's	1	Page 340 ATTORNEY DAVIDSON: Genetic
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Hurwitz.	$\frac{1}{2}$	susceptibility. That's the paper you
3			put in the chat is the one he cites in
4 the Hurwitz paper; correct.		3 4	-
	BY ATTORNEY DAVIDSON: 05:47		-
6		6	Jennifer put the paper in the chat; so
	introduction says: In a pooled analysis in	7	
1	17 cohort and case-controlled studies. I'm	8	about was Hurwitz 2022, and I think it
1	just trying to see where in the Hurwitz	9	was published in 2023. It's called
1	paper are you reading that sentence. 05:47	10	•
11	ATTORNEY O'DELL: Let me make sure	11	between Frequent Aspirin Use in
12	the right paper was put in the chat	12	Ovarian Cancer Risk, a Meta-Analysis.
13	because I didn't open that. Hurwitz,	13	ATTORNEY DAVIDSON: That's not the
14	<u> </u>	14	
15	between Frequent Aspirin Use and 05:47	15	ATTORNEY O'DELL: I believe it is. 05:49
16		16	THE WITNESS: Let me make sure.
17	Frequent Aspirin	17	ATTORNEY DAVIDSON: No. He
18	ATTORNEY O'DELL: Forgive me.	18	testified that that's what he cites in
19	Just for a moment. Let me finish.	19	his report in response to your
20		20	
21	to go in the chat was the Modification	21	ATTORNEY O'DELL: Okay. Finish
22	of the Association between Frequent	22	your examination, and then I'll follow
23	Aspirin Use and Ovarian Cancer Risks.	23	up to correct that.
24	Is that what was put in the chat?		BY ATTORNEY DAVIDSON:
25	ATTORNEY EMMEL: I have the 05:47	25	Q. So Dr. Levy, when you testified a 05:49
	Page 339		Page 341
1	_	1	few minutes ago in response to Ms. O'Dell's
$\frac{1}{2}$			questions and said that you had cited a
3			meta-analysis about from Hurwitz from
4			2023 in your expert report, that actually
5	*		wasn't true; right? 05:50
6		6	ATTORNEY O'DELL: Object to the
7	Modification of Association is 2022	7	form.
8		8	THE WITNESS: We were discussing a
9		9	different paper.
10			BY ATTORNEY DAVIDSON: 05:50
11	ATTORNEY DAVIDSON: Wait a minute.		Q. But you actually did not cite a
12			2023 meta-analysis in your expert report?
13	3	13	ATTORNEY O'DELL: Object to the
14		14	form.
15		15	THE WITNESS: So the paper that 05:50
16	1 0	16	
17		17	minute to
18			BY ATTORNEY DAVIDSON:
19	•	19	Q. Let's mark the paper you actually
20	1 6		cited as Exhibit 23, and Noah can put it 05:50
21	ATTORNEY O'DELL: I believe so.		back up on the screen because you were
22			led you were asked leading questions
23	•		about having cited a meta-analysis that you
24			didn't actually cite; correct?
25		25	ATTORNEY O'DELL: Object to the 05:50
سَـــــــــــــــــــــــــــــــــــــ			555 TOTA (21 5 2222)

D 240	D 244	
Page 342	Page 344	
2 (Exhibit Number 23 was marked for	2 ATTORNEY O'DELL: Objection to the	
3 identification.)	3 form.	
4 BY ATTORNEY DAVIDSON:		
	4 THE WITNESS: The paper we were 5 discussing is not the same as the 05:53	
	_	
	<ul><li>6 paper cited in the report.</li><li>7 BY ATTORNEY DAVIDSON:</li></ul>	
7 Q. Okay.		
8 A. Correct. The reference in the	8 Q. Doctor, you testified a few minutes	
9 report is what was shown is it still	9 ago that it's often there will often be	
10 it's still on the screen, correct. But the 05:51	10 similar language to addressing basic 05:53	
11 paper	11 concepts when it comes to cancer science;	
Q. When counsel asked	12 correct?	
13 ATTORNEY O'DELL: He's not	13 A. Correct.	
14 finished, please.	14 Q. But, in fact, your language was	
15 THE WITNESS: I was just saying we 05:51	15 identical, not similar, to language on 05:53	
were discussing a different paper, not	16 certain websites; correct?	
17 this paper.	17 ATTORNEY O'DELL: Objection to the	
18 BY ATTORNEY DAVIDSON:	18 form.	
19 Q. So when counsel asked whether you	19 THE WITNESS: As we discussed in a	
20 cited a 2023 meta-analysis in your report 05:51	20 single sentence. 05:53	
21 and you said yes, that was not true;	21 BY ATTORNEY DAVIDSON:	
22 correct?	22 Q. And you say that similar language	
23 ATTORNEY O'DELL: Object to form.	23 would be found in multiple places, but the	
24 THE WITNESS: There was a	24 fact is that the language you had that was	
25 misunderstanding of the citation. 05:52	25 identical to the language on the Mayo Clinic 05:53	
Page 343	Page 345	
1 BY ATTORNEY DAVIDSON:	1 website is not identical to any other	
2 Q. When counsel asked you whether you	2 language on the internet, is it?	
3 cited a 2023 meta-analysis in your report	3 A. I haven't looked.	
4 and you said you did, in fact, you did not	4 Q. You're not aware of any other	
5 cite a 2023 meta-analysis in your report 05:52	5 publications or websites that have the same 05:53	
6 having to do with aspirin use; correct?	6 language that you used in your report that	
7 ATTORNEY O'DELL: Objection.	7 we found in Wikipedia, the Mayo Clinic, and	
8 Misstates the record.	8 a scientific article; correct?	
9 THE WITNESS: The paper we're	9 ATTORNEY O'DELL: Object to the	
10 looking at is a analysis of aspirin 05:52	10 form. 05:54	
11 use.	11 THE WITNESS: Again, I haven't	
12 BY ATTORNEY DAVIDSON:	looked to see if those what the	
13 Q. Is it a meta-analysis?	13 instances of similar wording. But I	
14 A. It's a pooled analysis of eight	would disagree. There's absolutely	
15 case-control studies. 05:52	15 similar wording, but you're focused on 05:54	
16 Q. Is this the paper that you	16 the exact. Again, as was stated	
17 testified several minutes ago that you	earlier, the question my question	
18 relied on in your report and cited in your	would be is there a question about the	
19 report?	19 accuracy or other aspect of the	
20 A. So this was a paper cited in the 05:52	20 statement and whether or not that 05:54	
21 report, but our discussion was on a	21 statement is generally accepted.	
22 different paper.	22 BY ATTORNEY DAVIDSON:	
23 Q. So you testified that you cited a	23 Q. Dr. Levy, does plagiarism is the	
	24 definition of plagiarism turn on whether	
24 paper in your report that's different from	124 UCHIIIUOH OLDIAGIAHSIII LUHI OH WHEHEI	
<ul><li>24 paper in your report that's different from</li><li>25 the paper you actually cited in your report; 05:52</li></ul>	25 information is accurate, or does it turn on 05:54	

Dags 246	Page 249
Page 346  1 whether information is properly cited?	Page 348  1 What scientific literature can you
2 ATTORNEY O'DELL: Object to the	2 cite in support of that testimony?
3 form.	3 ATTORNEY O'DELL: Object to the
4 THE WITNESS: So, again, as we	4 form.
5 discussed and as we covered earlier, 05:55	5 THE WITNESS: Well, certainly many 05:57
6 depending on the requested format or	6 of the studies that we've been talking
7 type of information that's being	7 about today are appropriate for that
8 asked, depending on the assignment, it	8 very same thing when we're discussing
9 would be whether or not it would	9 the role of environmental factors in
	the progression of disease. None of 05:57
	1 0
<ul><li>that would be a plagiarism event or</li><li>otherwise.</li></ul>	
13 BY ATTORNEY DAVIDSON:	
	1
Q. Were you told in this assignment	<ul> <li>included individuals with any specific</li> <li>mutation or absence of mutation.</li> <li>05:57</li> </ul>
15 that you didn't have to have proper 05:55	
16 scientific citations and that you could cite	<ul><li>I would say there's a tremendous</li><li>amount of literature indicating the</li></ul>
17 from sources without proper citation?	
18 ATTORNEY O'DELL: Object to the 19 form.	<ul> <li>increase the increased risk that</li> <li>would be from environmental factors in</li> </ul>
· · · · · · · · · · · · · · · · · · ·	20 light of genetic testing as well. 05:57 21 BY ATTORNEY DAVIDSON:
<ul> <li>what I'm saying. There's a you're</li> <li>pulling a single sentence which was</li> </ul>	22 Q. Can you point me to any scientific
23 having no significant bearing in terms	23 studies that address or scientific
24 of the conclusions of the report and	24 papers, treatises, et cetera, that support
25 stating that because it wasn't cited 05:55	25 your theory about the lottery ticket and the 05:58
Page 347	Page 349  1 punches and the genetic mutations make you
<ul><li>1 as far as having the same wording for</li><li>2 that single sentence, whether it be</li></ul>	2 more susceptible to environmental factors?
	3 ATTORNEY O'DELL: Objection.
3 from any publicly available website, 4 that the attribution for that website	4 Asked and answered.
5 for that specific generally understood 05:56	5 THE WITNESS: There's a 05:58
6 fact, it would be indicative of	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to
<ul><li>6 fact, it would be indicative of</li><li>7 plagiarism.</li></ul>	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON:
<ul><li>6 fact, it would be indicative of</li><li>7 plagiarism.</li><li>8 BY ATTORNEY DAVIDSON:</li></ul>	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them?
<ul> <li>6 fact, it would be indicative of</li> <li>7 plagiarism.</li> <li>8 BY ATTORNEY DAVIDSON:</li> <li>9 Q. Do you know what happens to a</li> </ul>	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them? 9 ATTORNEY O'DELL: Don't interrupt,
<ul> <li>6 fact, it would be indicative of</li> <li>7 plagiarism.</li> <li>8 BY ATTORNEY DAVIDSON:</li> <li>9 Q. Do you know what happens to a</li> <li>10 student who submits a paper in college that 05:56</li> </ul>	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them? 9 ATTORNEY O'DELL: Don't interrupt, 10 please. 05:58
<ul> <li>6 fact, it would be indicative of</li> <li>7 plagiarism.</li> <li>8 BY ATTORNEY DAVIDSON:</li> <li>9 Q. Do you know what happens to a</li> <li>10 student who submits a paper in college that 05:56</li> <li>11 has a sentence from the Mayo Clinic that's</li> </ul>	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them? 9 ATTORNEY O'DELL: Don't interrupt, 10 please. 05:58 11 THE WITNESS: Again, I'd have to
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6 fact, it would be indicative of 7 plagiarism. 8 BY ATTORNEY DAVIDSON: 9 Q. Do you know what happens to a 10 student who submits a paper in college that 05:56 11 has a sentence from the Mayo Clinic that's 12 not cited and a sentence from Wikipedia 13 that's not cited and yet two more sentences	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them? 9 ATTORNEY O'DELL: Don't interrupt, 10 please. 05:58 11 THE WITNESS: Again, I'd have to 12 provide them. There's a rich 13 literature on cancer evolution and
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6 fact, it would be indicative of 7 plagiarism. 8 BY ATTORNEY DAVIDSON: 9 Q. Do you know what happens to a 10 student who submits a paper in college that 05:56 11 has a sentence from the Mayo Clinic that's 12 not cited and a sentence from Wikipedia 13 that's not cited and yet two more sentences 14 from a scientific article that aren't cited? 15 ATTORNEY O'DELL: Objection to the 05:56 16 form. 17 THE WITNESS: No, I've not 18 attempted to look at that. 19 BY ATTORNEY DAVIDSON: 20 Q. You testified in a very long-winded 05:56 21 answer to Ms. O'Dell that genetic mutations 22 can make you more susceptible to	5 THE WITNESS: There's a 05:58 6 certainly. I mean, I would have to 7 BY ATTORNEY DAVIDSON: 8 Q. Great. Can you list them? 9 ATTORNEY O'DELL: Don't interrupt, 10 please. 05:58 11 THE WITNESS: Again, I'd have to 12 provide them. There's a rich 13 literature on cancer evolution and 14 progression that the presence or 15 inhibit and there's even many 05:58 16 mechanistic studies when DNA repair 17 genes like BRCA1 and 2 are inhibited, 18 you see a rise in mutation rate. 19 Again, there's ample evidence to 20 suggest and support that statement 05:58 21 that with a decrease in call it DNA 22 integrity or cellular integrity, then

	Page 350		Page 352
1	studies.	1	article or treatise in support of your
2	Again, it would be a different		lottery ticket theory.
3	question than I was asked in this	3	ATTORNEY O'DELL: Objection to
4	report, and I would have to develop a	4	•
5	new report to that, but that 05:59	5	
6	literature absolutely exists.	6	Q. Your lottery punch, whatever it is.
1	BY ATTORNEY DAVIDSON:	7	
8	Q. You testified you gave this	8	•
	opinion that genetic mutations make you more	9	
1	susceptible to environmental factors. I 05:59	10	
	need to know what your basis is for that.	11	
1	What is your scientific basis? What studies	12	
	are you relying on? What science are you	13	, i
1	relying on for that opinion?	14	
15	ATTORNEY O'DELL: Objection. 05:59	15	
16	Compound, asked and answered.	16	
17	THE WITNESS: I gave an opinion	17	•
18	that genetic mutations which increase	18	•
19	susceptibility to cancer as we've been		BY ATTORNEY DAVIDSON:
20	discussing that and I was very 05:59	20	
21	specific when I gave the example of		that supports the analogy, and you know
22	the step function. I didn't indicate		that. I need a scientific that supports the
23	that it modified the risk from where		underlying scientific theory.
24	you began at, say, a baseline of no	24	
25	mutation. 06:00	25	///
	Page 351		Page 353
1	I think I was quite specific in my	1	BY ATTORNEY DAVIDSON:
2	explanation that I did not state in	2	Q. Can you provide one or not?
3	that genetic mutations made you more	3	
4	susceptible to environmental factors.	4	· ·
5	In fact, I was very careful to state 06:00	5	your question four times now. You can 06:02
6	that those genetic variants had set	6	
7	you at an already higher risk for	7	ATTORNEY DAVIDSON: He has not
8	cancer. I think that is not an	8	given me a scientific paper yet.
9		9	
10	•	10	
11	different mutations.	11	, ,
12	But then the environmental factor	12	
13	would have the same added risk whether	13	
14	you had those mutations or you didn't.	14	
15	Whatever that is is added on top of 06:00		BY ATTORNEY DAVIDSON: 06:02
16	_	16	
17	you're climbing higher on the risk	17	
18	•	18	
19	· ·	19	
20	I think it sounds like we're arguing a 06:00	20	
21	little bit about semantics. Again, I	21	3
22	think I was quite clear in that	22	, 1
23	example.	23	
	BY ATTORNEY DAVIDSON:	24	
25		25	
1			=

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Page 354	Page 356
1 BY ATTORNEY DAVIDSON:	1 Q. I see. I'm sorry.
2 Q. Is it your testimony that those	2 A. The studies are from the Ovarian
3 references exist?	3 Cancer Association Consortium.
4 A. Yes.	4 Q. I could ask a better question.
5 Q. Okay. We'll ask your counsel to 06:03	5 Is this a pooled analysis of eight 06:06
6 have you provide them along with your fixed	6 individual studies?
7 CV after this deposition.	7 A. According to paper, it is.
8 At this point I don't have any	8 Q. And what did they conclude, or what
9 further questions unless Ms. O'Dell does.	9 was the meaning of the paper?
10 ATTORNEY O'DELL: I have just one 06:03	3 10 A. So they were looking at the genetic 06:06
11 area of follow-up.	11 susceptibility to ovarian cancer based on
12	12 identified common genetic variants and then
13 FURTHER EXAMINATION	13 evaluating if the presence of those variants
14 BY ATTORNEY O'DELL:	14 alters or modifies the protective
15 Q. Dr. Levy, I want to direct you back 06:03	15 association with aspirin use or other 06:06
16 to the Hurwitz paper that was marked as	16 NSAIDs.
17 Exhibit 20 originally in the chat and that	17 Q. Did they conclude that there was a
18 was a paper titled Association of Frequent	18 protective effect of aspirin?
19 Aspirin Use with Ovarian Cancer Risk	19 A. Yes. Their conclusion was that the
20 According to Genetic Susceptibility, 06:03	20 identified genetic variants do not appear to 06:06
21 published in 2023.	21 modify that protective effect.
22 Do you see that?	22 Q. And is that consistent with the
23 A. Uh-huh.	23 manner in which their finding, is that
24 Q. And I created the confusion in my	24 consistent with the manner in which you
25 questions, and I wanted to straighten it 06:04	25 cited it in your report on page 13? 06:07
Page 355	Page 357
1 out. First, is this the paper that you cite	1 A. Sorry. I'm just looking at to
2 in you actually specifically cite in your	2 confirm on 13. Yes, it is. The quote from
3 report?	3 my report is: Moreover the protective
4 A. Yes, the title Association of	4 effect of aspirin is maintained even in
5 Frequent Aspirin Use is the paper I cite in 06:04	5 individuals with genetic susceptibility to 06:07
6 the report.	
	6 ovarian cancer.
7 Q. And is this paper published	7 Q. Okay. I now want to mark as an
8 excuse me.	<ul><li>7 Q. Okay. I now want to mark as an</li><li>8 Exhibit 24 the Hurwitz paper published in</li></ul>
8 excuse me. 9 Is this paper the work of from	<ul> <li>Q. Okay. I now want to mark as an</li> <li>Exhibit 24 the Hurwitz paper published in</li> <li>2022 entitled Modification of the</li> </ul>
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	Page 358		Page 360	
1	researchers, do they comment on whether	1		
2 ovarian cancer is associated with chronic		2		
_	3 inflammation?		_	
4	A. They do comment that in the	4		
	5 introduction. 06:08			
6	Q. Is that what you were referring to	5 6	•	
7 before in your prior testimony?		7		
8	A. That's correct.		B BY ATTORNEY DAVIDSON:	
9	Q. And what do they say?	9		
10	A. So they quoting from the 06:09		10 answered about cancer, are those specific to 06:11	
	introduction: Chronic inflammation likely		11 ovarian cancer?	
	· · · · · · · · · · · · · · · · · · ·	12		
	plays a key role in ovarian carcinogenesis.		, <u> </u>	
13	Q. In the conclusion of the paper, do	13		
	they conclude that frequent aspirin use is		said is accepted by ovarian cancer	
	associated with lower ovarian cancer risk? 06:09		researchers? 06:11	
16		16	ý.	
17	Q. You were asked a series of	17	· · · · · · · · · · · · · · · · · · ·	
	questions about whether mutations make an	18	<u>o</u>	
	individual more inherited mutations make	19	<u> </u>	
	an individual more susceptible to ovarian 06:09	20	E	
	cancer and specifically to the increased	21	Ç 1	
	risk associated with environmental agents	22	•	
	such as talc.	23	<b>71</b>	
24	Do you recall those questions?	24	1	
25	A. I do. 06:09	25	that has now become the standard in 06:11	
	Page 359		Page 361	
1	Q. And you were asked over and again	1	the cancer field.	
	if there were specific scientific references	2	That would be my expectation is	
3	j j	3	, E	
4	Do you recall that?		4 description in terms of cancer	
5	A. Yes, I do. 06:10	5	initiation and progression from a cell 06:11	
6	Q. Is the principle that you testified	6	mechanism perspective, but I don't	
	to generally accepted in your field of	7	think you'd see a lot of enthusiasm	
	genetics?	8	for limiting that or being as	
9	E E	9	imprecise as stating ovarian versus	
	principle of a multi-hit hypothesis, meaning 06:10	10	I think that's certainly what the 06:12	
	that you need multiple errors and multiple	11	molecular understanding of cancer has	
	genes to overcome the usual growth	12	-	
	inhibition or self-cycle control that exists	13	of cells of origin or cell type of	
	in normal cells.	14		
15	So when those things begin to break 06:10	15	BY ATTORNEY DAVIDSON: 06:12	
	down, you have defects in DNA repair. We've	16	Q. Do ovarian cancer researchers	
	been talking about BRCA1 and 2. My analogy		hey, did everybody else just go black on	
	was building on that level of understanding,	18	their screen?	
	building on the basic mechanisms of cancer	19	ATTORNEY O'DELL: No.	
	initiation and progression from a molecular 06:10	20	ATTORNEY DAVIDSON: My screen is 06:12	
21	standpoint.	21 22	pitch black. I don't know why. My	
	22 Q. Is that basic understanding		computer really wants this deposition	
22	23 something that is well known, well			
22 23	something that is well known, well	23	to end.	
22 23 24		23 24		

Page 362	Page 364	
1 ATTORNEY DAVIDSON: My whole	1 BY ATTORNEY DAVIDSON:	
2 computer is black.	2 Q. Both Hurwitz papers were	
3 ATTORNEY O'DELL: We can hear you,	3 co-authored by O'Brien and Wentzensen;	
4 Jessica; so you can continue.	4 correct?	
5 ATTORNEY DAVIDSON: Okay. Great. 06:12	5 A. I can confirm looking at 06:14	
6 I'm almost done.	6 Exhibit 24, yes.	
7 BY ATTORNEY DAVIDSON:	7 Q. Great. Okay. And that's the same	
8 Q. Can you point me to any ovarian	8 O'Brien and Wentzensen who wrote that it is	
9 cancer researchers who have adopted the	9 difficult to conclude that the observed	
10 approach that you just laid out in terms of 06:12	10 associations in some studies related to talc 06:14	
11 hits combining genetics and environmental	11 and ovarian cancer are causal; correct?	
12 factors?	12 ATTORNEY O'DELL: Object to the	
13 A. I would have to not off the top	13 form.	
14 of my head as far as specific names, but I	14 THE WITNESS: So Hurwitz and	
15 would fully expect that all ovarian cancer 06:13	15 Wentzensen are also co-authors on the 06:15	
16 researchers will would absolutely embrace	16 reference paper. I don't see O'Brien	
17 a version of what I just described as far as	as a co-author on that.	
18 the initiation and progression of cancer	18 BY ATTORNEY DAVIDSON:	
19 from a cell from a mechanistic	19 Q. I'm talking about 24.	
20 standpoint. 06:13	20 A. Yeah. So 24, yes, but not the 06:15	
21 Q. Would you defer to an ovarian	21 ATTORNEY O'DELL: Not Exhibit 20.	
22 cancer researcher to address those types of	22 THE WITNESS: Not Exhibit 20.	
23 questions?	23 BY ATTORNEY DAVIDSON:	
24 ATTORNEY O'DELL: Object to form.	24 Q. I'm talking about Exhibit 24.	
25 THE WITNESS: Would I defer to an 06:13	25 That's the same O'Brien and Wentzensen who 06:15	
Page 363	Page 365	
1 ovarian cancer I wouldn't no, I	1 also wrote a paper in which they stated it	
2 don't think I would defer to an	2 is difficult to conclude that the observed	
3 ovarian cancer expert to answer those	3 associations are causal; correct?	
4 questions. I think I'm confident	4 ATTORNEY O'DELL: Object to the	
5 enough in my knowledge in this field 06:14	5 form. 06:15	
6 to know that this is foundationally	6 THE WITNESS: Which exhibit was	
7 correct and that should any ovarian	7 the are you referring to for the	
8 cancer researcher or any researcher	8 for their other paper?	
9 for that matter disagree with the very	9 BY ATTORNEY DAVIDSON:	
10 broad summary mechanistic aspects we 06:14	Q. You don't recall that they wrote 06:15	
11 were just discussing, then I would	11 that?	
take exception with that position.	12 ATTORNEY O'DELL: Object to the	
13 BY ATTORNEY DAVIDSON:	13 form.	
14 Q. The Hurwitz paper is co-authored by	14 THE WITNESS: We've been again,	
15 O'Brien and Wentzensen; right? 06:14	15 I'm asking to confirm. We've been 06:15	
16 ATTORNEY O'DELL: I'm sorry. I	16 talking about a lot of papers today.	
17 missed the first part, Jessica. What	17 BY ATTORNEY DAVIDSON:	
18 did you say?	18 Q. Okay. If you don't recall, you can	
19 BY ATTORNEY DAVIDSON:	19 just let me know that.	
20 Q. The Hurwitz paper was co-authored 06:14	20 ATTORNEY O'DELL: Which exhibit 06:16	
21 by O'Brien and Wentzensen?	21 are you referring to, please?	
22 ATTORNEY O'DELL: Which one were 23 you referring to?	22 BY ATTORNEY DAVIDSON:	
, ,	23 Q. Do you not recall that?	
	24 ATTORNEY O'DELL: Object to the	
25 ///	25 form. 06:16	

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1 THE WITNESS: Again, I was asking	1 I'm asking you what you recall. How can you	
2 to I'd like to answer your question	2 recall something and looking a paper?	
3 completely.	3 That's not a recollection.	
4 BY ATTORNEY DAVIDSON:	4 ATTORNEY O'DELL: You referred to	
5 Q. I'm asking if you recall that that 06:16	5 the Wentzensen and O'Brien review just 06:17	
6 is the same Wentzensen and O'Brien who have	6 a moment ago. That's the paper.	
7 written that it is difficult to conclude	7 BY ATTORNEY DAVIDSON:	
8 that the observed associations are causal?	8 Q. I'm asking if you recall that these	
9 ATTORNEY O'DELL: If you're	9 are the same two people who have said that	
10 reading from a particular paper that's 06:16	10 it is difficult to conclude that the 06:18	
been marked or not marked, would you		
12 please identify.	11 associations that have been observed are 12 causal.	
= -		
<u> </u>		
14 just remembered it.	14 us discussing their papers. I do not recall	
	15 that they were associated with the specific 06:18	
16 Q. Did you remember it, Doctor, or	16 quote that you just described.	
17 not?	17 Q. Okay. I have no more questions.	
18 ATTORNEY O'DELL: Objection to the	18 ATTORNEY O'DELL: Nothing further.	
19 form.	19 Thank you. We're off the record.	
20 THE WITNESS: As we were talking 06:16	20 (Whereupon the deposition	
about on a number of subjects today	21 concluded at 6:18 p.m.)	
from plagiarism to others, I try to be	22	
23 more precise than just pulling out	23	
24 single sentences.	24	
25 ///	25	
Page 367  1 BY ATTORNEY DAVIDSON:	Page 369 1 REPORTER'S CERTIFICATE	
	2	
Q. I see. So you do not recall that	The undersigned Certified Shorthand	
3 Doctors O'Brien and Wentzensen published a	4 Reporter licensed in the states of	
4 review paper cited in your report that said	5 California, Nevada, and Washington does	
5 they do not that it is difficult to 06:16	6 hereby certify:	
6 conclude that the observed association is	7 That the foregoing deposition was	
7 causal?	<ul><li>8 taken before me at the time and place</li><li>9 therein set forth, at which time the witness</li></ul>	
8 ATTORNEY O'DELL: Asking him to	u ingrain cat torth at which time the witness	
u contirm a quota trom a papar is		
9 confirm a quote from a paper is	10 was duly sworn by me;	
10 improper, but thank you for 06:17	<ul><li>10 was duly sworn by me;</li><li>11 That the testimony of the witness</li></ul>	
<ul><li>improper, but thank you for 06:17</li><li>identifying it. He can look it since</li></ul>	<ul> <li>10 was duly sworn by me;</li> <li>11 That the testimony of the witness</li> <li>12 and all objections made at the time of the</li> </ul>	
<ul> <li>improper, but thank you for 06:17</li> <li>identifying it. He can look it since</li> <li>it's been marked as an exhibit.</li> </ul>	<ul><li>10 was duly sworn by me;</li><li>11 That the testimony of the witness</li></ul>	
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#### Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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